OPTOSUPPLY LIMITED

OptoSupply®

Light It up

LED Catalogue

LED & Electronics Application Technologies

Edition 17

OptoSupply® OPTOELECTRONICS PRODUCTS

OptoSupply® OPTOELECTRONICS PRODUCTS

ISO 9001:2008

REACH
The new EU chemicals legislation

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About OptoSupply

We are a Hong Kong based LED manufacturer with our headquarter in Hong Kong and wholly owned factory located in Shenzhen of China. Owning the advance automatic machines and professional engineers. We strive to serve our worldwide customers with the full range of LED models at the most reasonable price vs. the highest brightness and the best quality and customer service.

Optosupply Limited

LED Plasma Cleaner

Main Products:

- Through-Hole LED
- SMD LED
- Super Flux LED
- High Power LED
- LED Light Strip
- Digit Display & Dot Matrix
- OEM (original equipment manufacturing) Product
- ODM (original design manufacturing) Product

Achievement:

- Renewed our website with new style in 2016
- Launched more new products into product line regularly during 2012-2016
- Introduced more technology and increased new equipments in 2011
- Increased two new super flux LED production lines and power LED production line in 2010
- Added two more SMD production lines in 2010
- Added assembly production line in 2009
- Added Plasma Cleaner for strengthening product quality in 2009
- Added a new SMD production line in 2009
- Got ISO9001: 2008 certification and ISO14001: 2004 certification in 2008
- Got REACH and SVHC certification in 2008
- Moved Hong Kong office to Fo Tan in 2006
- Got RoHS certification in 2005
- Expanaded LED lamp production capacity to 2KK per day since 2004
- Expanded manufacturing floor space to 5,000 square meters in 2004
- Moved production plant to Longgang in 2004
- Obtained ISO9001: 2000 certification in 2003
- Founded in 2001 in Hong Kong

Manufactory Technology

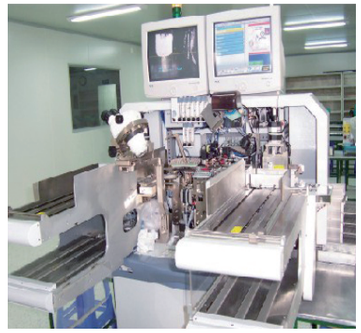
Through continuous research and development, OptoSupply pioneer applications for LEDS that create new value for our customers.The Group's dedicated R&D team is committed to developing innovative new applications for LED components. As OptoSupply engineers explore the immense untappedd potential of LED technology, one of the Group's top priorities is to create new applications to make our customers' dreams become reality.

To achieve its goals, our R & D team focuses on three directions, namely materials, process and optics innovation. We strive to improve LED performace by deploying non-imaging optics technique, including ray tracing and LED light source optical modeling.

From deploying vertical integration to ensuring flexibility and speed, OptoSupply manufacturing facilities are engineered to meet the diverse needs of our customers and OEM partners worldwide.

LED Lamp Assembly

We have been improving our production processes and environment continuously. Our own in-house production lines are fully automated, key machines include wire and die bonding, auto encapsulation, auto Bin classification and tape & reel packaging which are imported from overseas. We undertake all the production processes in class 10K clean room with temperature, humidity and ESD control.



LED Lamp Bond Machine

Quality Control

OptoSupply 's devotion to quality control is never-ending. In addition to attaining ISO9001:2000 quality accreditation, OptoSupply has established its own independent Quality Engineering Centre, which comprises three individual laboratories:

- Reliability Test Lab
- Photometric Lab
- Failure Analysis Lab

These laboratories conduct a wide array of reliability tests-including tests for shock resistance, life span and thermal shock-to ensure that only the highest quality OptoSupply products are delivered to our valuable customers. OptoSupply 's quality assurance experts are devoted to achieving:

- Precision emission patterns
- High degree of color consistency
- High durability
- High reliability to withstand the temperature, humidity and ultraviolet
- Conditions of real outdoor environments

Top View SMD Bin Sorter

LED Application Production Line

We continue to focus on the development of related LED products application in order to extend the company's production line. We have been improving our production processes and environment continuously. Our own In-house production lines are fully automated key machines, include Lead-Free N2 /AIR Reflow Soldering Machine and Automatic Lead-Free Dual Ware Soldering Machine.

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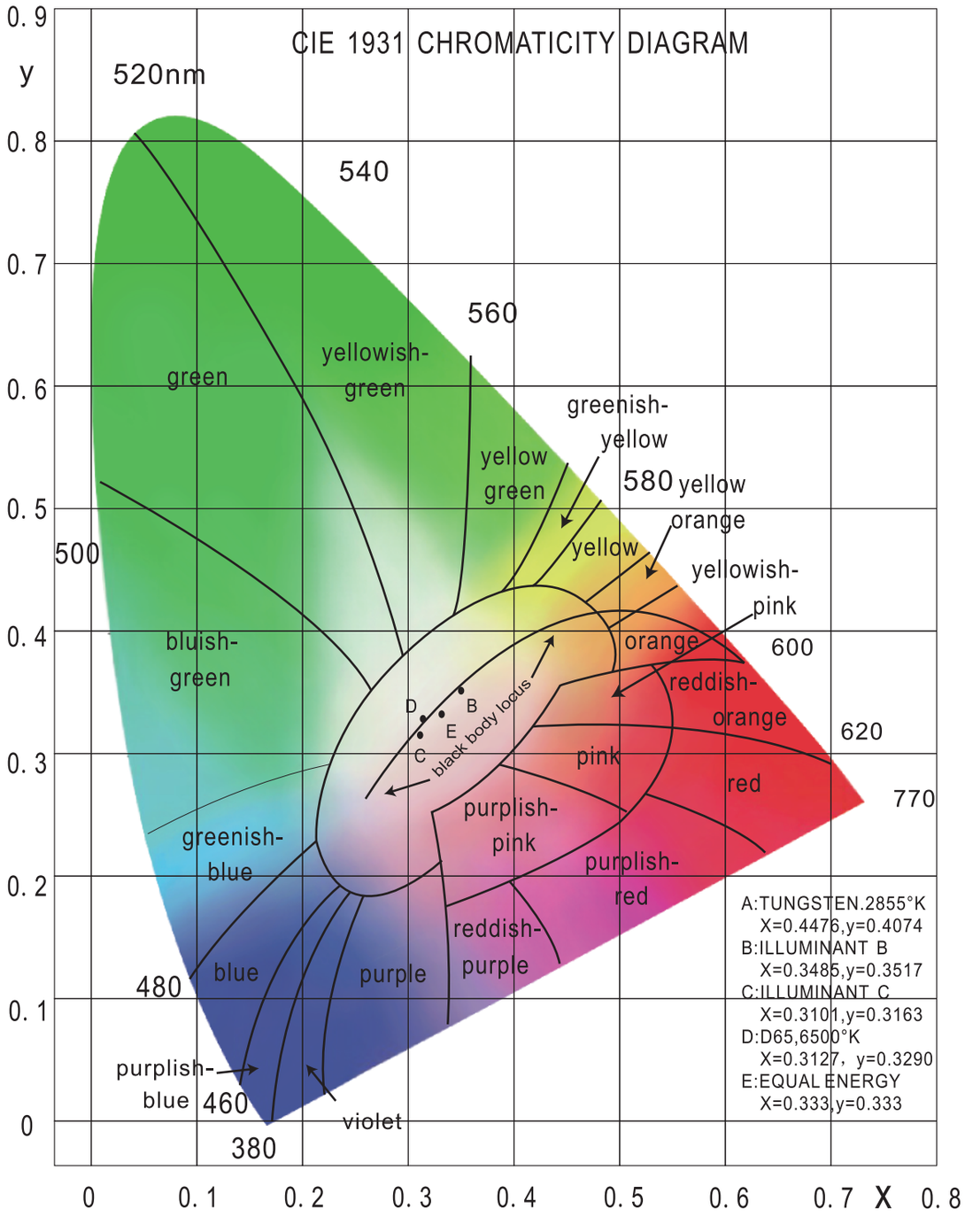
This data shows typical values.



OS AB C D EF G H I J KL MN PQ

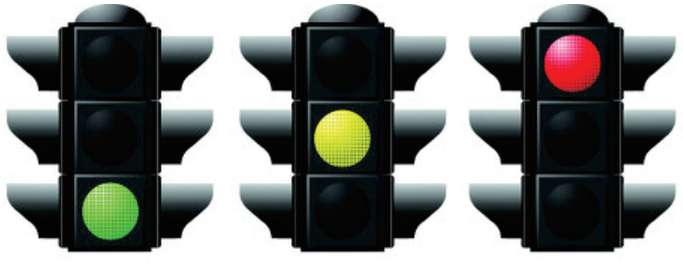
- PQ — VF RANGE
- MN — DOMI WAVELENGTH RANGE
- KL — IV RANGE
- J — PACKAGE TYPE
- I — PACKAGE OUTLINE
- H — EPOXY COLOR / PLATING SN (I, WATER CLEAR & NO PLATING SN; A WATER CLEAR & PLATING SN;...)
- G — EMITTING VIEWING ANGLE (0,8DEGREE; 1,15DEGREE; 3,30DEGREE; 6, 60DEGREE; A 100DEGREE;E,140DEGREE;...)
- EF — PRODOCT TYPE AND MOLD SIZE(3X,3MM ROUND; 5X, 5MM ROUND; AX,10MM ROUND;...)
- D — TECHNOLOGY TYPE(A,COMMON; L,LONG LIFETIME;...)
- C — CHIP TYPE (L.LOW BREGHT; H,HIGH BRIGHT; S, SUPER BREGHT; D, DELUXE BRIGHT; G, GIGA BRIGHT; P,PREMIUM BRIGHT; C, COMMERCIAL BRIGHT; M,PHOENIX BRIGHT;...)
- AB — EMITTING COLOR (RX,RED; YX,YELLOW;BX,BLVE;GX,GREEN;OX, ORANGE; WX,COOL WHITE; MX, WARM WHITE;...)
- OS — OPTOSUPPLY

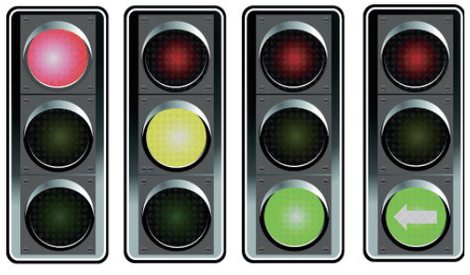
Intensity Standard

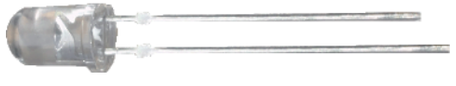
Bin	Range (mcd)	Bin	Range (mcd)	Bin	Range (mcd)	Bin	Range (mcd)
A	1-20	I	330-500	Q	5800-7000	Z	25000-30000
B	20-30	J	500-700	R	7000-8400	3	30000-36000
C	30-45	K	750-1120	S	8400-10000	4	36000-43000
D	45-68	L	1120-1560	T	10000-12000	5	43000-50000
E	68-100	M	1560-2180	U	12000-14400	6	50000-60000
F	100-150	N	2180-3000	V	14400-18000	7	60000-72000
G	150-220	O	3000-4200	W	18000-22000	8	72000-85000
H	220-330	P	4200-5800	Y	22000-25000	9	85000-100000

Forward Voltage

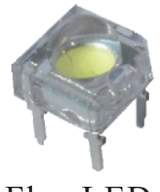
Bin	Range (V)	Bin	Range (V)	Bin	Range (V)	Bin	Range (V)
11	<1.6	66	2.4-2.6	BB	3.4-3.6	GG	4.4-4.6
22	1.6-1.8	77	2.6-2.8	CC	3.6-3.8	HH	4.6-4.8
33	1.8-2.0	88	2.8-3.0	DD	3.8-4.0	II	4.8-5.0
44	2.0-2.2	99	3.0-3.2	EE	4.0-4.2	JJ	5.0-5.2
55	2.2-2.4	AA	3.2-3.4	FF	4.2-4.4	KK	5.2-5.4







Through-hole LED series



Super Flux LED series

SMD LED series

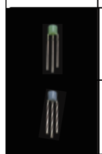
High Power LED series

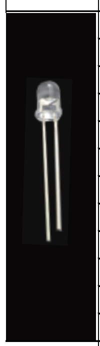
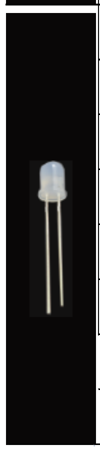
Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V) Typ.	Forward Voltage VF (V) Max.	Chromaticity Coordinates x Min.	x Typ	x Max.	y Min.	y Typ	y Max.
Φ5 Round Type											
	OSW5DK5A31A-CRLED18	Cool White	Water Clear	5.5	20	0.23	0.27	0.31	0.24	0.28	0.32
	OSM5DK5A31A-CRLED18	Warm White	Water Clear	5.5	20	0.41	0.45	0.49	0.37	0.41	0.45
Φ8 Round Type											
	OSW5DK8B31B-CRLED18	Cool White	Water Clear	5.5	20	0.23	0.27	0.31	0.24	0.28	0.32
	OSM5DK8B31B-CRLED18	Warm White	Water Clear	5.5	20	0.41	0.45	0.49	0.37	0.41	0.45
Φ10 Round Type											
	OSW5DKA131A-CRLED18	Cool White	Water Clear	5.5	20	0.23	0.27	0.31	0.24	0.28	0.32
	OSM5DKA131A-CRLED18	Warm White	Water Clear	5.5	20	0.41	0.45	0.49	0.37	0.41	0.45

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V) Typ.	Forward Voltage VF (V) Max.	Dominant Wavelength Min.	Dominant Wavelength Max.	wd(nm) Min.
Φ5 Round Type								
	OSB5SA5A31A-CRLED18	Blue	Water Clear	5.5	20	465	470	475
	OSG5DA5A31A-CRLED18	Pure Green	Water Clear	5.5	20	520	525	530
	OSG8NU5A31A-CRLED18	Yellow Green	Water Clear	5	20	565	570	575
	OSY5JA5A31A-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSY5MA5A31A-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSO5JA5A31A-CRLED18	Orange	Water Clear	5	20	600	605	610
	OSR5JA5A31A-CRLED18	Red	Water Clear	5	20	620	625	630
	OSR5MA5A31A-CRLED18	Red	Water Clear	5	20	620	625	630
Φ8 Round Type								
	OSB5SA8B31B-CRLED18	Blue	Water Clear	5.5	20	465	470	475
	OSG5DA8B31B-CRLED18	Pure Green	Water Clear	5.5	20	520	525	530
	OSG8NU8B31B-CRLED18	Yellow Green	Water Clear	5	20	565	570	575
	OSY5JA8B31B-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSY5MA8B31B-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSO5JA8B31B-CRLED18	Orange	Water Clear	5	20	600	605	610
	OSR5JA8B31B-CRLED18	Red	Water Clear	5	20	620	625	630
	OSR5MA8B31B-CRLED18	Red	Water Clear	5	20	620	625	630
Φ10 Round Type								
	OSB5SAA131A-CRLED18	Blue	Water Clear	5.5	20	465	470	475
	OSG5DAA131A-CRLED18	Pure Green	Water Clear	5.5	20	520	525	530
	OSG8NUA131A-CRLED18	Yellow Green	Water Clear	5	20	565	570	575
	OSY5JAA131A-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSY5MAA131A-CRLED18	Yellow	Water Clear	5	20	585	590	595
	OSO5JAA131A-CRLED18	Orange	Water Clear	5	20	600	605	610
	OSR5JAA131A-CRLED18	Red	Water Clear	5	20	620	625	630
	OSR5MAA131A-CRLED18	Red	Water Clear	5	20	620	625	630

Luminous Intensity (mcd) Typ.	Directivity 2θ1/2 (degree)	IF (mA) V_F=12V Min.	Typ	Max.	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) V_F (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
8000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
8000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
8000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	

Luminous Intensity (mcd) Typ.	Directivity 2θ1/2 (degree)	IF (mA) V_F=12V Min.	Typ	Max.	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) V_F (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
6500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
750	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
6500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
750	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
6500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	Wave Soldering
12000	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
750	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
1800	30	-	18	-	10	8	20	350	-30~+85	-40~+100	
7500	30	-	18	-	10	8	20	350	-30~+85	-40~+100	

Package	Part Number	Lens Type	Constant Current(I_H) I_H Min.	Typ.	Max.	Voltage (V)	Turn-on Voltage(Vk) Vk (V)
	Current Regulative Diode(T092)						
	OSCRDT218-A	Light Green Diffused	15	-	19	10	≤3.5
	OSCRDT218-C	Light Blue Diffused	15	-	19	10	≤3.5
	Current Regulative Diode(SMD2835)						
	OSCRD2835-18	Water Clear Type	15	-	19	10	≤3.5

Package	Part Number	Emitting Color Lower	Normal	Lens Type	Forward Voltage (V) Min.	Typ.	Max.	Dominant Wavelength wd(nm) Min.	Typ.
	Φ5 Voltage Detector LED								
	OSD127R55A1	■	-	Water Clear	2.55	2.7	2.85	620	625
	OSD127R55A2	■	-	White Diffused	2.55	2.7	2.85	620	625
	OSD129R55A1	■	-	Water Clear	2.75	2.9	3.05	620	625
	OSD129R55A2	■	-	White Diffused	2.75	2.9	3.05	620	625
	OSD133R55A1	■	-	Water Clear	3.15	3.3	3.45	620	625
	OSD133R55A2	■	-	White Diffused	3.15	3.3	3.45	620	625
	OSD136R55A1	■	-	Water Clear	3.45	3.6	3.75	620	625
	OSD136R55A2	■	-	White Diffused	3.45	3.6	3.75	620	625
	OSD139R55A1	■	-	Water Clear	3.75	3.9	4.05	620	625
	OSD139R55A2	■	-	White Diffused	3.75	3.9	4.05	620	625
	OSD142R55A1	■	-	Water Clear	4.05	4.2	4.35	620	625
	OSD142R55A2	■	-	White Diffused	4.05	4.2	4.35	620	625
	OSD233RP5A1	■ / -	- / ■	Water Clear	3.15	3.3	3.45	620 / 520	625 / 525
	OSD233RP5A2	■ / -	- / ■	White Diffused	3.15	3.3	3.45	620 / 520	625 / 525
	OSD236RP5A1	■ / -	- / ■	Water Clear	3.45	3.6	3.75	620 / 520	625 / 525
	OSD236RP5A2	■ / -	- / ■	White Diffused	3.45	3.6	3.75	620 / 520	625 / 525
	OSD239RP5A1	■ / -	- / ■	Water Clear	3.75	3.9	4.05	620 / 520	625 / 525
	OSD239RP5A2	■ / -	- / ■	White Diffused	3.75	3.9	4.05	620 / 520	625 / 525
	OSD242RP5A1	■ / -	- / ■	Water Clear	4.05	4.2	4.35	620 / 520	625 / 525
	OSD242RP5A2	■ / -	- / ■	White Diffused	4.05	4.2	4.35	620 / 520	625 / 525

CRD and Voltage Detector LED

Turn-on Voltage(Vk) I_K (MA)	Limiting Ratio(Kc) I_{30V}/I_{10V}	Withstand Voltage (V)	Absolute Maximum Rating (Ta=25℃) T_j (℃)	T_{stg} (℃)	P_c (W)	Mounting
≤0.8I_H	≤1.1	＞70	125	-40~+125	0.75*2	Wave Soldering
≤0.8I_H	≤1.1	＞70	125	-40~+125	0.75*2	
≤0.8I_H	≤1.1	＞70	125	-40~+125	0.75	Reflow

Max.	Luminous Intensity Min.	Typ.	Directivity 2θ1/2 (degree)	IF (mA)	Absolute Maximum Rating (Ta=25℃) Vcc (V)	I_{FP}*1 (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	Wave Soldering
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630	-	-	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630 / 530	- / -	- / -	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
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630 / 530	- / -	- / -	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
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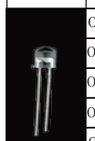
630 / 530	- / -	- / -	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630 / 530	- / -	- / -	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	
630 / 530	- / -	- / -	30	-	-0.3~+15	-	-	100	-30~+75	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)			Lumen Flux (lm)	
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
	*Φ4.8 3 -Chip Straw Type*										
	OSB56E56F1A		Blue	Water Clear	3.1	3.6	465	470	475	9	12
	OSG58E56F1A		Pure Green	Water Clear	3.1	3.6	520	525	530	25	30
	OS5YKE56F1A		Yellow	Water Clear	2.1	2.6	585	590	595	12	15
	OS5RKE56F1A		Red	Water Clear	2.1	2.6	620	625	630	12	15

Package	Part Number	Emitting Color		Lens Type	Forward Current IF (mA)		Chromaticity Coordinates						Luminous Intensity (mcd)	
							x			y				
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ	Max.	Min.	Typ.
	Φ5 Round 5V Resistor Type													
	OSW5DK5A31A-5V		Cool White	Water Clear	12	20	0.23	0.27	0.31	0.24	0.28	0.32	3000	4200
	OSM5DK5A31A-5V		Warm White	Water Clear	12	20	0.41	0.45	0.49	0.37	0.41	0.45	2180	3000
	OSK5DK5A31A-5V		Pink	Water Clear	12	20	0.41	0.45	0.49	0.13	0.17	0.21	1120	1560
	Φ5 Round 12V Resistor Type													
	OSW5DK5A31A-12V		Cool White	Water Clear	10	15	0.23	0.27	0.31	0.24	0.28	0.32	3000	4200
	OSM5DK5A31A-12V		Warm White	Water Clear	10	15	0.41	0.45	0.49	0.37	0.41	0.45	2180	3000
	OSK5DK5A31A-12V		Pink	Water Clear	10	15	0.41	0.45	0.49	0.13	0.17	0.21	1120	1560

Package	Part Number	Emitting Color		Lens Type	Forward Current IF (mA)		Dominant Wavelength wd(nm)			Luminous Intensity (mcd)	
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ.
	Φ5 Round 5V Resistor Type										
	OSB5SA5A31A-5V		Blue	Water Clear	12	20	465	470	475	1560	2180
	OSG5DA5A31A-5V		Pure Green	Water Clear	12	20	520	525	530	3000	4200
	OSG8HA5A31A-5V		Yellow Green	Water Clear	12	20	565	570	575	500	750
	OSY5RU5A31A-5V		Yellow	Water Clear	12	20	585	590	595	1120	1560
	OSO5JA5A31A-5V		Orange	Water Clear	12	20	600	605	610	1120	1560
	OSR5RU5A31A-5V		Red	Water Clear	12	20	620	625	630	1120	1560
	Φ5 Round 12V Resistor Type										
	OSB5SA5A31A-12V		Blue	Water Clear	10	15	465	470	475	1560	2180
	OSG5DA5A31A-12V		Pure Green	Water Clear	10	15	520	525	530	3000	4200
	OSG8HA5A31A-12V		Yellow Green	Water Clear	10	15	565	570	575	500	750
	OSY5RU5A31A-12V		Yellow	Water Clear	10	15	585	590	595	1120	1560
	OSO5JA5A31A-12V		Orange	Water Clear	10	15	600	605	610	1120	1560
	OSR5RU5A31A-12V		Red	Water Clear	10	15	620	625	630	1120	1560

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates					
							x			y		
					Typ.	Max.	Min.	Type	Max.	Min.	Typ	Max.
	Φ8 3-Chip Premium Power LED											
	OS4WM387E1U		Pure White	Water Clear	9.3	10.8	0.27	0.31	0.35	0.29	0.33	0.37
	OS5WM387E1U		Cool White	Water Clear	9.3	10.8	0.23	0.27	0.31	0.24	0.28	0.32
	OS5MM387E1U		Warm White	Water Clear	9.3	10.8	0.41	0.45	0.49	0.37	0.41	0.45

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)		
					Typ.	Max.	Min.	Type	Max.
	Φ8 3-Chip Premium Power LED								
	OS4BM387E1U		Blue	Water Clear	9.3	10.8	455	460	465
	OSG58387E1U		Pure Green	Water Clear	9.3	10.8	520	525	530
	OS5YE387E1U		Yellow	Water Clear	6.6	7.8	585	590	595
	OS5OG387E1U		Orange	Water Clear	6.6	7.8	600	605	610
	OS5RE387E1U		Red	Water Clear	6.6	7.8	620	625	630

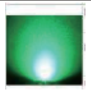
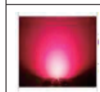
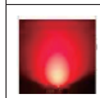
Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max. (uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
				I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	Tstg (℃)	
150	90	30	5	90	150	5	324	-30~+85	-40~+100	Wave Soldering
150	90	30	5	90	150	5	324	-30~+85	-40~+100	
150	90	30	5	100	150	5	260	-30~+85	-40~+100	
150	90	30	5	100	150	5	260	-30~+85	-40~+100	

Directivity 2θ1/2 (degree)	VF (V)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
				V_F (V)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	Wave Soldering
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	12	-	5	15	-	5	225	-30~+85	-40~+100	Wave Soldering
30	12	-	5	15	-	5	225	-30~+85	-40~+100	
30	12	-	5	15	-	5	225	-30~+85	-40~+100	

Directivity 2θ1/2 (degree)	VF (V)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
				V_F (V)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	Wave Soldering
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	
30	5	-	5	7.5	-	5	150	-30~+85	-40~+100	

Lumen Flux (lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
45	55	140	40	10	15	45	80	15	486	-30~+85	-40~+100	Wave Soldering
40	50	140	40	10	15	45	80	15	486	-30~+85	-40~+100	
40	50	140	40	10	15	45	80	15	486	-30~+85	-40~+100	

Lumen Flux (lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
8	12	140	40	10	15	45	80	15	486	-30~+85	-40~+100	Wave Soldering
28	35	140	40	10	15	45	80	15	486	-30~+85	-40~+100	
15	20	140	50	10	15	50	90	15	390	-30~+85	-40~+100	
28	35	140	50	10	15	50	90	15	390	-30~+85	-40~+100	
15	20	140	50	10	15	50	90	15	390	-30~+85	-40~+100	

Picture	Part Number	Emitting Color	Package	Lens Type	Forward Voltage VF (V) Typ.	Forward Voltage VF (V) Max.	Chromaticity Coordinates x Typ.	Chromaticity Coordinates y Typ.	Lumen Flux (lm) Min.	Lumen Flux (lm) Typ.	Directivity $2\theta_{1/2}$ (degree)
	OSC24L5111A	Sky	5mm	Water Clear	3.1	3.6	0.19	0.15	4.0	4.5	15
	OSC24LZ281P	Sky	Super Flux	Water Clear	3.1	3.6	0.19	0.15	5.5	6.5	80
	OSC24LS1C1A	Sky	3528	Green Diffused	3.1	3.6	0.19	0.15	4.0	4.5	120
	OSC24TS4C1A	Sky	5050	Green Diffused	3.2	3.6	0.19	0.15	12	13.5	120
	OSC34L5111A	Cyan	5mm	Water Clear	3.1	3.6	0.208	0.256	6	6.7	15
	OSC34LZ281P	Cyan	Super Flux	Water Clear	3.1	3.6	0.208	0.256	8.5	9.5	80
	OSC34LS1C1A	Cyan	3528	Green Diffused	3.1	3.6	0.208	0.256	6	6.7	120
	OSC34TS4C1A	Cyan	5050	Green Diffused	3.2	3.6	0.208	0.256	18	20	120
	OSC44L5111A	Aqua	5mm	Pure Green Water Clear	3.1	3.6	0.25	0.37	8	8.6	15
	OSC44LZ281P	Aqua	Super Flux	Water Clear	3.1	3.6	0.25	0.37	10	12	80
	OSC44LS1C1A	Aqua	3528	Green Diffused	3.1	3.6	0.25	0.37	8	8.6	120
	OSC44TS4C1A	Aqua	5050	Green Diffused	3.2	3.6	0.25	0.37	24	26	120
	OSC54L5111A	Mint	5mm	Water Clear	3.1	3.6	0.29	0.49	8.5	9.2	15
	OSC54LZ281P	Mint	Super Flux	Water Clear	3.1	3.6	0.29	0.49	11	13	80
	OSC54LS1C1A	Mint	3528	Green Diffused	3.1	3.6	0.29	0.49	8.5	9.2	120
	OSC54TS4C1A	Mint	5050	Green Diffused	3.2	3.6	0.29	0.49	25	27.5	120
	OSC64L5111A	Lime	5mm	Water Clear	3.1	3.6	0.32	0.53	8.5	9.2	15
	OSC64LZ281P	Lime	Super Flux	Water Clear	3.1	3.6	0.32	0.53	11	13	80
	OSC64LS1C1A	Lime	3528	Green Diffused	3.1	3.6	0.32	0.53	8.5	9.2	120
	OSC64TS4C1A	Lime	5050	Green Diffused	3.2	3.6	0.32	0.53	25	27.5	120
	OSC74L5111A	Leaf	5mm	Water Clear	3.1	3.6	0.27	0.55	8.6	9.3	15
	OSC74LZ281P	Leaf	Super Flux	Water Clear	3.1	3.6	0.27	0.55	11	13	80
	OSC74LS1C1A	Leaf	3528	Green Diffused	3.1	3.6	0.27	0.55	8.6	9.3	120
	OSC74TS4C1A	Leaf	5050	Green Diffused	3.2	3.6	0.27	0.55	25.5	28	120
	OSC84L5111A	Baby Pink	5mm	Water Clear	3.1	3.6	0.356	0.208	3.5	4.1	15
	OSC84LZ281P	Baby Pink	Super Flux	Water Clear	3.1	3.6	0.356	0.208	5	5.7	80
	OSC84LS1C1A	Baby Pink	3528	Red Diffused	3.1	3.6	0.356	0.208	3.5	4.1	120
	OSC84TS4C1A	Baby Pink	5050	Red Diffused	3.2	3.6	0.356	0.208	10	12	120
	OSCA4L5111A	Magenta	5mm	Water Clear	3.1	3.6	0.45	0.25	3.3	3.8	15
	OSCA4LZ281P	Magenta	Super Flux	Water Clear	3.1	3.6	0.45	0.25	5	5.5	80
	OSCA4LS1C1A	Magenta	3528	Red Diffused	3.1	3.6	0.45	0.25	3.3	3.8	120
	OSCA4TS4C1A	Magenta	5050	Red Diffused	3.2	3.6	0.45	0.25	9.5	11.5	120
	OSCB4L5111A	Rose	5mm	Water Clear	3.1	3.6	0.51	0.285	1.8	2.2	15
	OSCB4LZ281P	Rose	Super Flux	Water Clear	3.1	3.6	0.51	0.285	2.5	3	80
	OSCB4LS1C1A	Rose	3528	Red Diffused	3.1	3.6	0.51	0.285	1.8	2.2	120
	OSCB4TS4C1A	Rose	5050	Red Diffused	3.2	3.6	0.51	0.285	5.5	6.5	120
	OSCC4L5111A	Tomato	5mm	Water Clear	3.1	3.6	0.59	0.315	1.5	1.8	15
	OSCC4LZ281P	Tomato	Super Flux	Water Clear	3.1	3.6	0.59	0.315	2	2.5	80
	OSCC4LS1C1A	Tomato	3528	Red Diffused	3.1	3.6	0.59	0.315	1.5	1.8	120
	OSCC4TS4C1A	Tomato	5050	Red Diffused	3.2	3.6	0.59	0.315	4.5	5.5	120
	OSCD4L5111A	Lavender	5mm	Water Clear	3.1	3.6	0.29	0.23	5	5.4	15
	OSCD4LZ281P	Lavender	Super Flux	Water Clear	3.1	3.6	0.29	0.23	6.5	7.5	80
	OSCD4LS1C1A	Lavender	3528	Yellow Diffused	3.1	3.6	0.29	0.23	5	5.4	120
	OSCD4TS4C1A	Lavender	5050	Yellow Diffused	3.2	3.6	0.29	0.23	15	16.5	120
	OSCE4L5111A	Peach	5mm	Water Clear	3.1	3.6	0.386	0.275	4.5	4.9	15
	OSCE4LZ281P	Peach	Super Flux	Water Clear	3.1	3.6	0.386	0.275	6	7	80
	OSCE4LS1C1A	Peach	3528	Yellow Diffused	3.1	3.6	0.386	0.275	4.5	4.9	120
	OSCE4TS4C1A	Peach	5050	Yellow Diffused	3.2	3.6	0.386	0.275	13.5	15	120

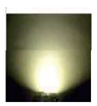
Gloden Color LED

Picture	Part Number	Emitting Color	Package	Lens Type	Forward Voltage VF (V) Typ.	Forward Voltage VF (V) Max.	Dominant Wavelength wd(nm) Min.	Dominant Wavelength wd(nm) Typ.	Dominant Wavelength wd(nm) Max.	Luminous Intensity (mcd) Min.	Luminous Intensity (mcd) Typ.	Directivity $2\theta_{1/2}$ (degree)
	OSY6CA3131P	Golden	3mm	Water Clear	2.4	2.8	590	594	597	22000	25000	30
	OSY6CA5111P	Golden	5mm	Water Clear	2.4	2.8	590	594	597	40000	55000	15
	OSY6PA3131A	Golden	3mm	Water Clear	2.1	2.6	590	594	597	4200	5800	30
	OSY6PA5111A	Golden	5mm	Water Clear	2.1	2.6	590	594	597	14400	18000	15

Special Color LED Series

IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow

IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
70	10	5	70	120	5	196	-30~+85	-40~+100	Wave Soldering
70	10	5	70	120	5	196	-30~+85	-40~+100	
20	10	5	50	120	5	130	-40~+85	-40~+100	
20	10	5	50	120	5	130	-40~+85	-40~+100	

Picture	Part Number	Emitting Color	Package	Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates		Lumen Flux (Lm)		Directivity 2θ1/2 (degree)
							x	y			
					Typ.	Max.	Typ.	Typ.	Min.	Typ.	
	OSCF4L5111A	Cherry	5mm	Water Clear	3.1	3.6	0.44	0.30	4.2	4.7	15
	OSCF4LZ281P	Cherry	Super Flux	Water Clear	3.1	3.6	0.44	0.3	6.0	6.5	80
	OSCF4LS1C1A	Cherry	3528	Yellow Diffused	3.1	3.6	0.44	0.30	4.2	4.7	120
	OSCF4TS4C1A	Cherry	5050	Yellow Diffused	3.2	3.6	0.44	0.30	12.5	14.0	120
	OSCG4L5111A	Orange Peach	5mm	Water Clear	3.1	3.6	0.55	0.36	4.0	4.4	15
	OSCG4LZ281P	Orange Peach	Super Flux	Water Clear	3.1	3.6	0.55	0.36	5.7	6.2	80
	OSCG4LS1C1A	Orange Peach	3528	Yellow Diffused	3.1	3.6	0.55	0.36	4.0	4.4	120
	OSCG4TS4C1A	Orange Peach	5050	Yellow Diffused	3.2	3.6	0.55	0.36	12.0	13.5	120
	OSCH4L5111A	Cream	5mm	Water Clear	3.1	3.6	0.41	0.35	5.5	6.1	15
	OSCH4LZ281P	Cream	Super Flux	Water Clear	3.1	3.6	0.41	0.35	7.5	8.5	80
	OSCH4LS1C1A	Cream	3528	Yellow Diffused	3.1	3.6	0.41	0.35	5.5	6.1	120
	OSCH4TS4C1A	Cream	5050	Yellow Diffused	3.2	3.6	0.41	0.35	16.5	18.5	120
	OSCJ4L5111A	Sand	5mm	Water Clear	3.1	3.6	0.47	0.36	4.9	5.3	15
	OSCJ4LZ281P	Sand	Super Flux	Water Clear	3.1	3.6	0.47	0.36	7.0	7.5	80
	OSCJ4LS1C1A	Sand	3528	Yellow Diffused	3.1	3.6	0.47	0.36	4.9	5.3	120
	OSCJ4TS4C1A	Sand	5050	Yellow Diffused	3.2	3.6	0.47	0.36	14.5	16	120
	OSCK4L5111A	Sunshine	5mm	Water Clear	3.1	3.6	0.34	0.37	7.0	7.5	15
	OSCK4LZ281P	Sunshine	Super Flux	Water Clear	3.1	3.6	0.34	0.37	9.0	10.5	80
	OSCK4LS1C1A	Sunshine	3528	Yellow Diffused	3.1	3.6	0.34	0.37	7.0	7.5	120
	OSCK4TS4C1A	Sunshine	5050	Yellow Diffused	3.2	3.6	0.34	0.37	20	22.5	120
	OSCL4L5111A	Lemon	5mm	Water Clear	3.1	3.6	0.395	0.455	8.0	8.5	15
	OSCL4LZ281P	Lemon	Super Flux	Water Clear	3.1	3.6	0.395	0.455	10	12	80
	OSCL4LS1C1A	Lemon	3528	Yellow Diffused	3.1	3.6	0.395	0.455	8.0	8.5	120
	OSCL4TS4C1A	Lemon	5050	Yellow Diffused	3.2	3.6	0.395	0.455	23	25.5	120
	OSCM4L5111A	Yolk	5mm	Water Clear	3.1	3.6	0.45	0.47	7.7	8.2	15
	OSCM4LZ281P	Yolk	Super Flux	Water Clear	3.1	3.6	0.45	0.47	9.5	11.5	80
	OSCM4LS1C1A	Yolk	3528	Yellow Diffused	3.1	3.6	0.45	0.47	7.7	8.2	120
	OSCM4TS4C1A	Yolk	5050	Yellow Diffused	3.1	3.6	0.45	0.47	22	24.5	120
	OSK64L5111A	Sakura	5mm	Water Clear	3.1	3.6	0.25	0.14	2.5	3.5	15
	OSK64LZ281P	Sakura	Super Flux	Water Clear	3.1	3.6	0.25	0.14	4.0	5.0	80
	OSK64LS1C1A	Sakura	3528	Yellow Diffused	3.1	3.6	0.25	0.14	2.5	3.5	120
	OSK64TS4C1A	Sakura	5050	Yellow Diffused	3.1	3.6	0.25	0.14	9.0	11	120
	OSB64L5111A	Ice Blue	5mm	Water Clear	3.1	3.6	0.19	0.29	6.2	7.0	15
	OSB64LZ281P	Ice Blue	Super Flux	Water Clear	3.1	3.6	0.19	0.29	8.0	10	80
	OSB64LS1C1A	Ice Blue	3528	Green Diffused	3.1	3.6	0.19	0.29	6.2	7.0	120
	OSB64TS4C1A	Ice Blue	5050	Green Diffused	3.2	3.6	0.19	0.29	18	21	120
	OSG74L5111A	Fluorescent Green	5mm	Water Clear	3.1	3.6	0.35	0.50	6.5	7.5	15
	OSG74LZ281P	Fluorescent Green	Super Flux	Water Clear	3.1	3.6	0.35	0.50	9.0	10.5	80
	OSG74LS1C1A	Fluorescent Green	3528	Green Diffused	3.1	3.6	0.35	0.50	6.5	7.5	120
	OSG74TS4C1A	Fluorescent Green	5050	Green Diffused	3.1	3.6	0.35	0.50	18	21	120

Special Color LED Series

IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	10	5	80	100	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	30	5	80	120	5	288	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
30	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
60	10	5	80	100	5	288	-30~+85	-40~+100	Reflow

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates						Lumen Flux (Lm)		Directivity 2θ1/2 (degree)
						x			y					
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
	Φ 4.8 Straw 9V LED													
	OS5MPL56D1A	Warm White	Water Clear	8.9	10.2	0.30	0.44	0.48	0.37	0.41	0.45	20	22	130
	OS4WPL56D1A	Pure White	Water Clear	8.9	10.2	0.27	0.31	0.35	0.29	0.33	0.37	22	25	130

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Peak Wavelength		wp(nm)	Radiant Flux (mW)		Directivity 2θ1/2 (degree)
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
	Φ5 Violet Round Type										
	OSV5DL5111A	Violet	Water Clear	3.1	3.6	400	405	410	12	14	15
	OSV4DL5111A	Violet	Water Clear	3.2	3.8	390	395	400	12	14	15
	Φ5 Violet Bullet Type										
	OSV5DL5201A	Violet	Water Clear	3.1	3.6	400	405	410	12	14	8
	OSV4DL5201A	Violet	Water Clear	3.2	3.8	390	395	400	12	14	8
	Violet Oval Type										
	OSV5DL5471D	Violet	Water Clear	3.1	3.6	400	405	410	12	14	70/40
	OSV4DL5471D	Violet	Water Clear	3.2	3.8	390	395	400	12	14	70/40
	Violet SMD 3528 Type										
	OSV5DLS1C1A	Violet	Water Clear	3.1	3.6	400	405	410	12	14	120
	OSV4DLS1C1A	Violet	Water Clear	3.2	3.8	390	395	400	12	14	120

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Peak Wavelength		wp(nm)	Radiant Intensity (mW/Sr)		Directivity 2θ1/2 (degree)
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
	Φ5 Infrared Emitting Round Type										
	OSI3CA5111A	Infrared	Water Clear	1.6	1.8	~	850	~	30	45	15
	OSI5LA5113A	Infrared	Color Transparent	1.6	1.8	~	940	~	35	45	15
	Φ5 Infrared Emitting Bullet Type										
	OSI3CA5201A	Infrared	Water Clear	1.6	1.8	~	850	~	65	100	8
	OSI5LA5203A	Infrared	Color Transparent	1.6	1.8	~	940	~	45	60	8
	Infrared Emitting Oval Type										
	OSI3CA5451B	Infrared	Water Clear	1.6	1.8	~	850	~	30	45	70/40
	OSI5LA5453B	Infrared	Color Transparent	1.6	1.8	~	940	~	25	35	70/40
	Infrared Emitting SMD 3528 / Xeon Power Type										
	OSI3CAS1C1A	Infrared	Water Clear	1.6	1.8	~	850	~	15	20	120
	OSI5LAS1C1A	Infrared	Water Clear	1.6	1.8	~	940	~	10	20	120
	OSI5XNE3C1E	Infrared	Water Clear	1.8	2.6	~	940	~	280mW	300mW	120

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Peak Wavelength		wp(nm)	Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
	Ø5 Plant Growing LED										
	OSR7CA5111A	Red	Water Clear	2.1	2.6	650	660	670	12000	14400	15
	Ø4.8 Plant Growing LED										
	OSR7CA56A1A	Red	Water Clear	2.1	2.6	650	660	670	1120	1560	100
	3528 Plant Growing LED										
	OSR7CAS1C1A	Red	Water Clear	2.1	2.6	650	660	670	500	700	120

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Peak Wavelength		wp(nm)	Radiant Power (mW)		Directivity 2θ1/2 (degree)
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
	Plant Growing Xeon Power LED										
	OSR7XNE3C1E	Red	Water Clear	2.8	3.5	650	660	670	450	480	120
	OSR9XNE3C1E	Red	Water Clear	2.8	3.5	720	730	740	280	300	120

IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	15	25	120	15	255	-30~+85	-40~+100	Wave Soldering
20	10	15	25	120	15	255	-30~+85	-40~+100	

IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
20	10	5	30	100	5	114	-30~+85	-40~+100	
20	10	5	30	100	5	108	-30~+85	-40~+100	
20	10	5	30	100	5	114	-30~+85	-40~+100	
20	10	5	30	100	5	108	-30~+85	-40~+100	
20	10	5	30	100	5	114	-30~+85	-40~+100	
20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
20	10	5	30	100	5	114	-30~+85	-40~+100	

IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
50	10	5	70	700	5	126	-30~+85	-40~+100	Wave Soldering
100	10	5	100	1000	5	180	-30~+85	-40~+100	
100	10	5	100	1000	5	180	-30~+85	-40~+100	
100	10	5	100	1000	5	180	-30~+85	-40~+100	
100	10	5	100	1000	5	180	-30~+85	-40~+100	
100	10	5	100	1000	5	180	-30~+85	-40~+100	
50	10	5	70	700	5	126	-30~+85	-40~+100	Reflow
100	10	5	100	1000	5	180	-30~+85	-40~+100	
700	10	5	1000	2000	5	2600	-30~+85	-40~+100	

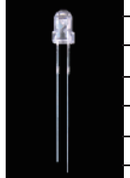
IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	5	50	120	5	130	-30~+85	-40~+100	Wave Soldering

IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	5	70	120	5	182	-30~+85	-40~+100	Wave Soldering

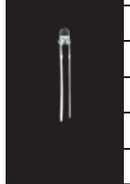
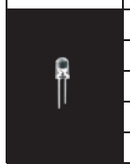
IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
20	10	5	70	120	5	182	-30~+85	-40~+100	Reflow

IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
			I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
700	10	5	700	1000	5	2450	-30~+85	-40~+100	Reflow
700	10	5	700	1000	5	2450	-30~+85	-40~+100	

Special LED Series

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates						CRI
							x			y			
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
	*High CRI Φ 4.8 Straw LED*												
	OS5MFL56C1A-HCRI		Warm White	Water Clear	3.1	3.6	0.39	0.42	0.45	0.34	0.37	0.40	90
	OSM54E56C1A-HCRI		Warm White	Water Clear	3.1	3.6	0.39	0.42	0.45	0.34	0.37	0.40	90
	OSAWFL56C1A-HCRI		Pure White	Water Clear	3.1	3.6	0.28	0.31	0.34	0.27	0.30	0.33	85
	OSWA4E56C1A-HCRI		Pure White	Water Clear	3.1	3.6	0.28	0.31	0.34	0.27	0.30	0.33	85
	OSWR4356D1A		Pure White	Water Clear	8.5	9.6	0.28	0.32	0.36	0.27	0.31	0.35	92
	OSMR4356D1A		Warm White	Water Clear	8.5	9.6	0.40	0.44	0.48	0.34	0.38	0.42	90
	High CRI Φ5 Super Flux LED												
	OS5MFLZ2C1P-HCRI		Warm White	Water Clear	3.1	3.6	0.39	0.42	0.45	0.34	0.37	0.40	90
	OSM54EZ2C1P-HCRI		Warm White	Water Clear	3.1	3.6	0.39	0.42	0.45	0.34	0.37	0.40	90
	OSAWFLZ2C1P-HCRI		Pure White	Water Clear	3.1	3.6	0.28	0.31	0.34	0.27	0.30	0.33	85
	OSWA4EZ2C1P-HCRI		Pure White	Water Clear	3.1	3.6	0.28	0.31	0.34	0.27	0.30	0.33	85
	OSWR43Z2C1P		Pure White	Water Clear	8.5	9.6	0.28	0.32	0.36	0.27	0.31	0.35	90
	OSMR43Z2C1P		Warm White	Water Clear	8.5	9.6	0.40	0.44	0.48	0.34	0.38	0.42	90
	4-chip DC12V LED												
	OSW4G456F1A		Pure White	Water Clear	12.0	13.6	0.27	0.31	0.35	0.29	0.33	0.37	75
	OSW4G4Z2C1P		Pure White	Water Clear	12.0	13.6	0.27	0.31	0.35	0.29	0.33	0.37	75
	DC 20V LED												
	OS4WNL56F1A		Pure White	Water Clear	17.5	20	0.27	0.31	0.35	0.29	0.33	0.37	75
	OS4WNLZ2C1P		Pure White	Water Clear	17.5	20	0.27	0.31	0.35	0.29	0.33	0.37	75
	OS4WNNE1E1E		Pure White	Water Clear	20.0	22	0.27	0.31	0.35	0.29	0.33	0.37	75

Package	Part Number	Emitting Color		Lens Type	Voltage VF (V)		Chromaticity Coordinates						
							x			y			
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
	Φ3 AC LED												
	OSWWY23131E		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32	
	OSMMY23131E		Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45	
	*Φ5 **AC LED***												
	OSWWY25111E		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32	
	OSMMY25111E		Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45	

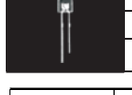
Package	Part Number	Emitting Color		Lens Type	Voltage VF (V)		Dominant Wavelength wd(nm)		
					Typ.	Max.	Min.	Typ.	Max.
	Φ3 AC LED								
	OSBBY23131E		Blue	Water Clear	3.1	3.6	465	470	475
	OSGGD23131E		Pure Green	Water Clear	3.1	3.6	520	525	530
	OSRRJ23131A		Red	Water Clear	2.1	2.6	620	625	630
	OSYYJ23131A		Yellow	Water Clear	2.1	2.6	585	590	595
	OSOOJ23131A		Orange	Water Clear	2.1	2.6	600	605	610
	Φ 5 AC LED								
	OSBBY25111E		Blue	Water Clear	3.1	3.6	465	470	475
	OSGGD25111E		Pure Green	Water Clear	3.1	3.6	520	525	530
	OSRRJ25111A		Red	Water Clear	2.1	2.6	620	625	630
	OSYYJ25111A		Yellow	Water Clear	2.1	2.6	585	590	595
	OSOOJ25111A		Orange	Water Clear	2.1	2.6	600	605	610

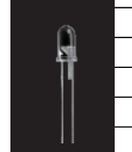
Luminous Flux (lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
16	18	120	50	10	5	60	120	5	216	-30~+85	-40~+100	Wave Soldering
14	16	120	60	30	5	75	120	5	270	-30~+85	-40~+100	
18	20	120	50	10	5	60	120	5	216	-30~+85	-40~+100	
15	17	120	60	30	5	75	120	5	270	-30~+85	-40~+100	
14	16	130	20	10	15	25	50	15	240	-30~+85	-40~+100	
10	12	130	20	10	15	25	50	15	240	-30~+85	-40~+100	
16	18	120	50	10	5	60	120	5	216	-30~+85	-40~+100	Wave Soldering
22	24	120	90	30	5	90	120	5	324	-30~+85	-40~+100	
18	20	120	50	10	5	60	120	5	216	-30~+85	-40~+100	
25	27	120	90	30	5	90	120	5	324	-30~+85	-40~+100	
14	16	120	20	10	15	30	50	15	288	-30~+85	-40~+100	
10	12	120	20	10	15	30	50	15	288	-30~+85	-40~+100	
28	30	150	20	10	15	20	40	15	272	-30～+85	40～+100	Wave Soldering
28	30	120	20	10	15	20	40	15	272	-30～+85	40～+100	
25	30	150	10	10	25	10	40	25	200	-30～+85	40～+100	Wave Soldering
25	30	120	10	10	25	12	40	25	240	-30～+85	40～+100	
60	75	140	30	10	25	30	50	25	660	-30～+85	40～+100	

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
2560	3000	30	20	-	-	30	100	-	108	-30~+85	-40~+100	Wave Soldering
1800	2560	30	20	-	-	30	100	-	108	-30~+85	-40~+100	
8000	10000	15	20	-	-	30	100	-	108	-30~+85	-40~+100	Wave Soldering
6500	8000	15	20	-	-	30	100	-	108	-30~+85	-40~+100	

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
2180	3000	30	20	-	-	30	100	-	108	-30~+85	-40~+100	Wave Soldering
8400	10000	30	20	-	-	30	100	-	108	-30~+85	-40~+100	
1120	1560	30	20	-	-	30	100	-	78	-30~+85	-40~+100	
1120	1560	30	20	-	-	30	100	-	78	-30~+85	-40~+100	
1120	1560	30	20	-	-	30	100	-	78	-30~+85	-40~+100	
4200	5800	15	20	-	-	30	100	-	108	-30~+85	-40~+100	Wave Soldering
18000	22000	15	20	-	-	30	100	-	108	-30~+85	-40~+100	
4200	5800	15	20	-	-	30	100	-	78	-30~+85	-40~+100	
4200	5800	15	20	-	-	30	100	-	78	-30~+85	-40~+100	
4200	5800	15	20	-	-	30	100	-	78	-30~+85	-40~+100	

Through-hole LED Series

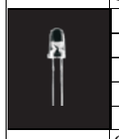
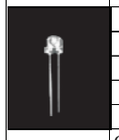
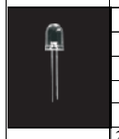
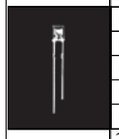
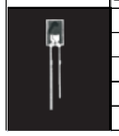
Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates x			
				Typ.	Max.	Min.	Typ	Max.	Min.
	Φ4.8 3-Chip Straw Type								
	OSW44356F1A	Pure White	Water Clear	9.3	10.8	0.27	0.31	0.35	0.29
	OSW54356F1A	Cool White	Water Clear	9.3	10.8	0.23	0.27	0.31	0.24
	OSM54356F1A	Warm White	Water Clear	9.3	10.8	0.41	0.45	0.49	0.37
	OSW44E56F1A	Pure White	Water Clear	3.1	3.6	0.27	0.31	0.35	0.29
	OSW54E56F1A	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54E56F1A	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	Φ5 Deluxe Power Round Type								
	OSW54L5111P	Cool White	Water Clear	3.3	3.8	0.23	0.27	0.31	0.24
	OSM54L5111P	Warm White	Water Clear	3.3	3.8	0.41	0.45	0.49	0.37
	OSK54L5111P	Pink	Water Clear	3.3	3.8	0.41	0.45	0.49	0.13
	Φ3 Round Low Decay Type								
	OSW54K3131E	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54K3131E	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54K3131E	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	Φ5 Round Low Decay Type								
	OSW54K5111E	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54K5111E	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54K5111E	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	Φ5 Bullet Low Decay Type								
	OSW5DK5201E	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM5DK5201E	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK5DK5201E	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	Φ4.8 Straw Low Decay Type								
	OSW54K56A1E	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54K56A1E	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54K56A1E	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	Φ10 Round Low Decay Type								
	OSW54KA131A	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54KA131A	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54KA131A	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	2x3x4mm Rectangular Low Decay Type								
	OSW54K7BA1F	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54K7BA1F	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54K7BA1F	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13
	2x5x7mm Rectangular Low Decay Type								
	OSW54K71A1F	Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24
	OSM54K71A1F	Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37
	OSK54K71A1F	Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13

Package	Part Number	Emitting Color	Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)		
				Typ.	Max.	Min.	Typ.	Max.
	Φ5 Deluxe Power Round Type							
	OSB56L5111P	Blue	Water Clear	3.3	3.8	465	470	475
	OSG38A5111P	Bluish Green	Water Clear	3.3	3.8	500	505	510
	OSG58A5111P	Pure Green	Water Clear	3.3	3.8	520	525	530
	OSR5CA5111P	Red	Water Clear	2.2	2.6	620	625	630
	OSY5CA5111P	Yellow	Water Clear	2.2	2.6	585	590	595
	OSO5CA5111P	Orange	Water Clear	2.2	2.6	600	605	610
	OS5RKA5111P	Red	Water Clear	2.5	2.9	620	625	630
	OS5YKA5111P	Yellow	Water Clear	2.5	2.9	585	590	595

y		Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Typ	Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
0.33	0.37	5000	7000	150	20	10	15	25	50	15	270	-30~+85	-40~+100	Wave Soldering
0.28	0.32	6000	8400	150	20	10	15	25	50	15	270	-30~+85	-40~+100	
0.41	0.45	4000	5600	150	20	10	15	25	50	15	270	-30~+85	-40~+100	
0.33	0.37	5000	7000	150	60	30	5	75	120	5	270	-30~+85	-40~+100	
0.28	0.32	6000	8400	150	60	30	5	75	120	5	270	-30~+85	-40~+100	
0.41	0.45	4000	5600	150	60	30	5	75	120	5	270	-30~+85	-40~+100	
0.28	0.32	60000	75000	15	50	10	5	50	100	5	190	-30~+85	-40~+100	Wave Soldering
0.41	0.45	36000	42000	15	50	10	5	50	100	5	190	-30~+85	-40~+100	
0.17	0.21	10000	12000	15	50	10	5	50	100	5	190	-30~+85	-40~+100	
0.28	0.32	20000	22000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	12000	14400	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	2180	3000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	37000	42000	15	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	22000	25000	15	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	7000	8400	15	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	30000	40000	8	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	20000	30000	8	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	7000	8400	8	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	3000	4200	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	2180	3000	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	750	1120	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	35000	40000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	18000	22000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	4200	5800	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	1120	1560	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	500	750	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	100	150	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.28	0.32	2180	3000	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
0.41	0.45	1120	1560	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
0.17	0.21	330	500	100	20	10	5	30	100	5	108	-30~+85	-40~+100	

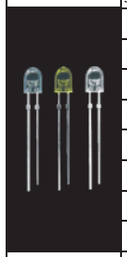
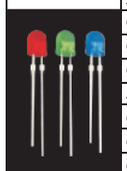
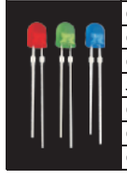
Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
25000	30000	15	30	10	5	50	100	5	190	-30~+85	-40~+100	Wave Soldering
80000	100000	15	50	10	5	50	100	5	190	-30~+85	-40~+100	
80000	100000	15	50	10	5	50	100	5	190	-30~+85	-40~+100	
40000	55000	15	70	10	5	70	120	5	182	-30~+85	-40~+100	
40000	55000	15	70	10	5	70	120	5	182	-30~+85	-40~+100	
40000	55000	15	70	10	5	70	120	5	182	-30~+85	-40~+100	
80000	100000	15	70	10	5	70	120	5	182	-30~+85	-40~+100	
80000	100000	15	70	10	5	70	120	5	182	-30~+85	-40~+100	

Through-hole LED Series

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)			Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
	Deluxe Power Φ 5mm Traffic LED Series																					
	OSG38A5C31P		Bluish Green	Water Clear	3.1	3.6	500	505	510	25000	30000	30	50	10	5	50	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSR5CA5C31P		Red	Water Clear	2.1	2.6	620	625	630	18000	22000	30	70	10	5	70	100	5	182	-30~+85	-40~+100	
	OSY5CA5C31P		Yellow	Water Clear	2.1	2.6	585	590	595	18000	22000	30	70	10	5	70	120	5	182	-30~+85	-40~+100	
	Φ5 Traffic LED Series																					
	OSG3DA5C31C		Bluish Green	Water Clear	3.1	3.6	500	505	510	12000	14000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSR5PA5C31C		Red	Water Clear	2.1	2.6	620	625	630	4200	6000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA5C31C		Yellow	Water Clear	2.1	2.6	585	590	595	4200	6000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	Φ3 Round Type																					
	OSB5SA3131E		Blue	Water Clear	3.1	3.6	465	470	475	4200	5500	30	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA3131E		Pure Green	Water Clear	3.1	3.6	520	525	530	8400	10000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA3131E		Red	Water Clear	2.1	2.6	620	625	630	7000	8000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA3131E		Yellow	Water Clear	2.1	2.6	585	590	595	7000	8000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA3131E		Orange	Water Clear	2.1	2.6	600	605	610	7000	8000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OS5RKA3131E		Red	Water Clear	2.1	2.6	620	625	630	14000	16000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OS5YKA3131E		Yellow	Water Clear	2.1	2.6	585	590	595	14000	16000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	Φ5 Round Type																					
	OSB5SA5111E		Blue	Water Clear	3.1	3.6	465	470	475	12000	14400	15	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA5111E		Pure Green	Water Clear	3.1	3.6	520	525	530	25000	30000	15	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA5111E		Red	Water Clear	2.1	2.6	620	625	630	20000	25000	15	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA5111E		Yellow	Water Clear	2.1	2.6	585	590	595	20000	25000	15	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA5111E		Orange	Water Clear	2.1	2.6	600	605	610	20000	25000	15	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OS5RKA5111E		Red	Water Clear	2.1	2.6	620	625	630	50000	60000	15	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OS5YKA5111E		Yellow	Water Clear	2.1	2.6	585	590	595	50000	60000	15	20	10	5	50	120	5	130	-30~+85	-40~+100	
	Φ5 Bullet Type																					
	OSB5SA5201E		Blue	Water Clear	3.1	3.6	465	470	475	8000	9000	8	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA5201E		Pure Green	Water Clear	3.1	3.6	520	525	530	30000	35000	8	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA5201E		Red	Water Clear	2.1	2.6	620	625	630	36000	40000	8	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA5201E		Yellow	Water Clear	2.1	2.6	585	590	595	36000	40000	8	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA5201E		Orange	Water Clear	2.1	2.6	600	605	610	36000	40000	8	20	10	5	50	120	5	130	-30~+85	-40~+100	
	Φ4.8 Straw Type																					
	OSB5SA56A1E		Blue	Water Clear	3.1	3.6	465	470	475	750	900	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA56A1E		Pure Green	Water Clear	3.1	3.6	520	525	530	2000	2500	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA56A1E		Red	Water Clear	2.1	2.6	620	625	630	1560	2000	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA56A1E		Yellow	Water Clear	2.1	2.6	585	590	595	1560	2000	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA56A1E		Orange	Water Clear	2.1	2.6	600	605	610	1560	2000	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	Φ10 Round Type																					
	OSB5SAA131A		Blue	Water Clear	3.1	3.6	465	470	475	4200	5500	30	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DAA131A		Pure Green	Water Clear	3.1	3.6	520	525	530	18000	21000	30	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PAA131A		Red	Water Clear	2.1	2.6	620	625	630	14400	17000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PAA131A		Yellow	Water Clear	2.1	2.6	585	590	595	14400	17000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PAA131A		Orange	Water Clear	2.1	2.6	600	605	610	14400	17000	30	20	10	5	50	120	5	130	-30~+85	-40~+100	
	2x3x4 Rectangular Type																					
	OSB5SA7BA1F		Blue	Water Clear	3.1	3.6	465	470	475	330	600	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA7BA1F		Pure Green	Water Clear	3.1	3.6	520	525	530	750	1200	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA7BA1F		Red	Water Clear	2.1	2.6	620	625	630	750	1120	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA7BA1F		Yellow	Water Clear	2.1	2.6	585	590	595	750	1120	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA7BA1F		Orange	Water Clear	2.1	2.6	600	605	610	750	1120	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	2x5x7 Rectangular Type																					
	OSB5SA71A1F		Blue	Water Clear	3.1	3.6	465	470	475	500	750	100	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
	OSG5DA71A1F		Pure Green	Water Clear	3.1	3.6	520	525	530	1560	2500	100	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSR5PA71A1F		Red	Water Clear	2.1	2.6	620	625	630	1120	1560	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PA71A1F		Yellow	Water Clear	2.1	2.6	585	590	595	1120	1560	100	20	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PA71A1F		Orange	Water Clear	2.1	2.6	600	605	610	1120	1560	100	20	10	5	50	120	5	130	-30~+85	-40~+100	

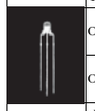
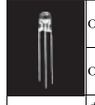
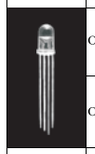
Oval LED Series

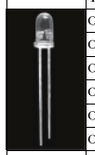
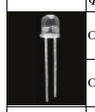
Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates					
							x			y		
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ	Max.
	5.0x4.1mm Oval Low Decay Type											
	OSW54K5471D		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54K5471D		Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54K5471D		Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	5.1x4.3mm Oval Low Decay Type											
	OSW54K5HA1D		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54K5HA1D		Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54K5HA1D		Pink	Water Clear	3.1	3.6	0.41	0.45	0.49	0.13	0.17	0.21

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF(V)		Dominant Wavelength wd(nm)		
					Typ.	Max.	Min.	Typ.	Max.
	5.0x4.1mm Oval Type								
	OSB5SA5471D		Blue	Water Clear	3.1	3.6	465	470	475
	OSG5DA5471D		Pure Green	Water Clear	3.1	3.6	520	525	530
	OSR5RU5471D		Red	Water Clear	2.1	2.6	620	625	630
	OSY5RU5471D		Yellow	Water Clear	2.1	2.6	585	590	595
	OSO5JA5471D		Orange	Water Clear	2.1	2.6	600	605	610
	OSR5PA5471D		Red	Water Clear	2.1	2.6	620	625	630
	OSY5PA5471D		Yellow	Water Clear	2.1	2.6	585	590	595
	OSO5PA5471D		Orange	Water Clear	2.1	2.6	600	605	610
	5.1x4.3mm Oval Type								
	OSB5SA5HA1D		Blue	Water Clear	3.1	3.6	465	470	475
	OSG5DA5HA1D		Pure Green	Water Clear	3.1	3.6	520	525	530
	OSR5RU5HA1D		Red	Water Clear	2.1	2.6	620	625	630
	OSY5RU5HA1D		Yellow	Water Clear	2.1	2.6	585	590	595
	OSO5JA5HA1D		Orange	Water Clear	2.1	2.6	600	605	610
	OSR5PA5HA1D		Red	Water Clear	2.1	2.6	620	625	630
	OSY5PA5HA1D		Yellow	Water Clear	2.1	2.6	585	590	595
	OSO5PA5HA1D		Orange	Water Clear	2.1	2.6	600	605	610
	546 Oval Type(1R1G1B)								
	OSB5SA5JB4D		Blue	Color Diffused	3.1	3.6	465	470	475
	OSG5DA5JB4D		Pure Green	Color Diffused	3.1	3.6	520	525	530
	OSR5PA5JB4D		Red	Color Diffused	2.1	2.6	620	625	630
	546 Oval Type(2R1G1B)								
	OSB5SA5JB4D		Blue	Color Diffused	3.1	3.6	465	470	475
	OSG5DA5JB4D		Pure Green	Color Diffused	3.1	3.6	520	525	530
	OSR5RU5JB4D		Red	Color Diffused	2.1	2.6	620	625	630
	546 Oval Type(1R1G1B)								
	OSB56A5JB4D		Blue	Color Diffused	3.1	3.6	465	470	475
	OSG58A5JB4D		Pure Green	Color Diffused	3.1	3.6	520	525	530
	OSR5CA5JB4D		Red	Color Diffused	2.1	2.6	620	625	630
	546 Oval Type(2R1G1B)								
	OSB56A5JB4D		Blue	Color Diffused	3.1	3.6	465	470	475
	OSG58A5JB4D		Pure Green	Color Diffused	3.1	3.6	520	525	530
	OSR5RU5JB4D		Red	Color Diffused	2.1	2.6	620	625	630

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} *1 (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
30000	35000	70/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
25000	30000	70/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
3500	4200	70/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
40000	45000	100/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
35000	40000	100/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
5500	6500	100/40	20	10	5	30	100	5	108	-30~+85	-40~+100	

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
2500	3500	70/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
12000	15000	70/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
2180	3000	70/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
2180	3000	70/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
2180	3000	70/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
4200	5500	70/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
4200	5500	70/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
4200	5500	70/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
4200	5000	100/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
18000	22000	100/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
3000	4500	100/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
3000	4500	100/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
3000	4500	100/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
7000	8000	100/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
7000	8000	100/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
7000	8000	100/40	20	10	5	50	120	5	130	-30~+85	-40~+100	
330	450	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
1560	2180	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
500	800	110/40	20	10	5	50	100	5	130	-30~+85	-40~+100	
330	450	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
1560	2180	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	
330	450	110/40	20	10	5	30	100	5	78	-30~+85	-40~+100	
330	550	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
1560	2500	110/40	20	10	5	50	120	5	180	-30~+85	-40~+100	
750	1120	110/40	20	10	5	70	120	5	182	-30~+85	-40~+100	
330	550	110/40	20	10	5	30	100	5	108	-30~+85	-40~+100	Wave Soldering
1560	2500	110/40	20	10	5	50	120	5	180	-30~+85	-40~+100	
330	500	110/40	20	10	5	70	120	5	182	-30~+85	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength		wd(nm)	Luminous Intensity (mcd)	
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
	Φ3 Round Bi-Color Type										
	OSRGHC3131A		Red	Water Clear	2.1	2.6	620	625	630	750	1120
			Yellow Green		2.1	2.6	565	570	575	500	800
	OSRBMC3131A		Red	Water Clear	2.1	2.6	620	625	630	5800	6500
			Blue		3.1	3.6	465	470	475	2180	3000
	Φ5 Round Bi-Color Type										
	OSRGHC5B31A		Red	Water Clear	2.1	2.6	620	625	630	1120	1560
			Yellow Green		2.1	2.6	565	570	575	750	1100
	OSRBMC5B31A		Red	Water Clear	2.1	2.6	620	625	630	7000	8500
			Blue		2.1	2.6	465	470	475	3000	4000
	Φ5 Round Full Color Type										
	OSTAMA5B31A		Red	Water Clear	2.1	2.6	620	625	630	7000	8500
			Blue		3.1	3.6	465	470	475	3000	4000
			Pure Green		3.1	3.6	520	525	530	12000	14400
	OSTAMC5B32A		Red	White Diffused	2.1	2.6	620	625	630	3000	4200
			Blue		3.1	3.6	465	470	475	1560	2000
			Pure Green		3.1	3.6	520	525	530	5800	7000

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength		wd(nm)	Luminous Intensity (mcd)	
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
	Φ3 Round Mono-Color Flashing Type										
	OSB5SS3131A		Blue	Water Clear	3.3	4.5	465	470	475	1560	2200
	OSG3DS3131A		Bluish Green	Water Clear	3.3	4.5	500	505	510	5800	7000
	OSG5DS3131A		Pure Green	Water Clear	3.3	4.5	520	525	530	5800	7000
	OSR5MS3131A		Red	Water Clear	3.3	4.5	620	625	630	4200	5000
	OSY5MS3131A		Yellow	Water Clear	3.3	4.5	585	590	595	4200	5000
	OSO5MS3131A		Orange	Water Clear	3.3	4.5	600	605	610	4200	5000
	Φ5 Round Mono-Color Flashing Type										
	OSB5SS5A31A		Blue	Water Clear	3.3	4.5	465	470	475	2000	2500
	OSG3DS5A31A		Bluish Green	Water Clear	3.3	4.5	500	505	510	12000	14400
	OSG5DS5A31A		Pure Green	Water Clear	3.3	4.5	520	525	530	12000	14400
	OSR5MS5A31A		Red	Water Clear	3.3	4.5	620	625	630	5800	7000
	OSY5MS5A31A		Yellow	Water Clear	3.3	4.5	585	590	595	5800	7000
	OSO5MS5A31A		Orange	Water Clear	3.3	4.5	600	605	610	5800	7000
	Φ5 Round Bi-Color Flashing Type										
	OSRBMS5A31A		Red	Water Clear	3.3	4.5	620	625	630	5800	7000
			Blue				465	470	475	2000	2500
	OSRPMS5A31A		Red	Water Clear	3.3	4.5	620	625	630	5800	7000
			Pure Green				520	525	530	12000	14400
	Φ5 Round Full Color Flashing Type										
	OST1MA5A31A		Red	Water Clear	4.5	5.0	620	625	630	7000	8400
			Blue				465	470	475	3000	4000
			Pure Green				520	525	530	12000	14400
	OST1MA5A32A		Red	White Diffused	4.5	5.0	620	625	630	3000	4000
			Blue				465	470	475	1560	2180
			Pure Green				520	525	530	5800	7000
	OST1MC5A31A		Red	Water Clear	4.5	5.0	620	625	630	7000	8400
			Blue				465	470	475	3000	4000
			Pure Green				520	525	530	12000	14400
	OST1MC5A32A		Red	White Diffused	4.5	5.0	620	625	630	3000	4000
			Blue				465	470	475	1560	2180
			Pure Green				520	525	530	5800	7000
	Φ5 Round Intelligent Control RGB LED										
	OST4ML5B32A		Red	White Diffused	4.5	6.0	620	625	630	350	450
			Blue				465	470	475	150	200
			Pure Green				520	525	530	500	600

30

30 Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
				I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
30	20	10	5	30	100	5	78	-30~+85	-40~+100	Wave Soldering
30	20	10	5	30	100	5	78	-30~+85	-40~+100	
30	20	10	5	30	100	5	78	-30~+85	-40~+100	Wave Soldering
30	20	10	5	30	100	5	78	-30~+85	-40~+100	
30	20	10	5	50	120	5	130	-30~+85	-40~+100	Wave Soldering
30	20	10	5	30	100	5	108	-30~+85	-40~+100	
30	20	10	5	30	100	5	108	-30~+85	-40~+100	

Directivity 2θ1/2 (degree)	IF (mA)	Blinking Cycle	Duty Cycle	Absolute Maximum Rating (Ta=25℃)						
				Vdd (V)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	Wave Soldering
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	Wave Soldering
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	Wave Soldering
30	20	1.8	1/2	4.5	-	-	-	-30~+85	-40~+100	
30	20	33	-	5	-	-	-	-30~+85	-40~+100	Wave Soldering
30	20	33	-	5	-	-	-	-30~+85	-40~+100	
30	20	12	-	5	-	-	-	-30~+85	-40~+100	Wave Soldering
30	20	12	-	5	-	-	-	-30~+85	-40~+100	
30	15	1. Completely receive and decode data through a single wire. 2. Adjust grayscale circuit (can adjust 256 grayscale level)		3.5~6.0	-	-	-	-30~+85	-40~+100	Wave Soldering
					-	-	-			
					-	-	-			

Surface Mount LED Series

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength		wd(nm)	Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
	0402 SMD																					
	OSB50402C1C		Blue	Water Clear	3.2	3.6	460	465	475	60	90	120	20	10	5	20	100	5	72	-30~+85	-40~+100	Reflow
	OSG50402C1C		Ture Green	Water Clear	3.2	3.6	517	525	530	250	400	120	20	10	5	20	100	5	72	-30~+85	-40~+100	
	OSG80402C1C		Yellow Green	Water Clear	2.0	2.6	565	750	575	20	30	120	20	10	5	20	100	5	52	-30~+85	-40~+100	
	OSY50402C1C		Yellow	Water Clear	2.0	2.6	585	590	595	50	100	120	20	10	5	20	100	5	52	-30~+85	-40~+100	
	OSO50402C1C		Orange	Water Clear	2.0	2.6	600	605	610	50	100	120	20	10	5	20	100	5	52	-30~+85	-40~+100	
	OSR50402C1C		Red	Water Clear	2.0	2.6	620	625	630	50	100	120	20	10	5	20	100	5	52	-30~+85	-40~+100	
	0603 SMD																					
	OSB50603C1E		Blue	Water Clear	2.8	3.4	455	470	475	14	25	120	5	10	5	20	100	5	68	-40~+100	-40~+100	Reflow
	OSG50603C1E		Ture Green	Water Clear	2.8	3.4	520	525	530	120	180	120	5	10	5	20	100	5	68	-40~+100	-40~+100	
	OSG80603C1E		Yellow Green	Water Clear	1.8	2.4	565	570	575	5	10	120	5	10	5	20	100	5	48	-40~+100	-40~+100	
	OSY50603C1E		Yellow	Water Clear	1.8	2.4	586	590	592	15	35	120	5	10	5	20	100	5	48	-40~+100	-40~+100	
	OSO50603C1E		Orange	Water Clear	1.8	2.4	600	605	610	15	35	120	5	10	5	20	100	5	48	-40~+100	-40~+100	
	OSR50603C1E		Red	Water Clear	1.8	2.4	6170	625	630	15	35	120	5	10	5	20	100	5	48	-40~+100	-40~+100	
	0603 Dome Lens																					
	OSB5060341F		Blue	Water Clear	3.1	3.4	460	465	470	150	350	35	20	10	5	30	100	5	102	-30~+85	-40~+100	Reflow
	OSG5060341F		Ture Green	Water Clear	3.1	3.4	518	521	526	1300	2500	35	20	10	5	30	100	5	102	-30~+85	-40~+100	
	OSG8060341F		Yellow Green	Water Clear	2.1	2.4	565	570	575	70	150	35	20	10	5	30	80	5	72	-30~+85	-40~+100	
	OSY5060341F		Yellow	Water Clear	2.1	2.4	585	590	595	200	400	35	20	10	5	30	80	5	72	-30~+85	-40~+100	
	OSO5060341F		Orange	Water Clear	2.1	2.4	600	605	610	200	400	35	20	10	5	30	80	5	72	-30~+85	-40~+100	
	OSR5060341F		Red	Water Clear	2.1	2.4	617	621	625	200	400	35	20	10	5	30	80	5	72	-30~+85	-40~+100	
	0805 SMD																					
	OSB50805C1E		Blue	Water Clear	3.2	3.6	465	470	475	42	80	120	20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
	OSG50805C1E		Ture Green	Water Clear	3.2	3.6	520	525	530	400	450	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
	OSG80805C1E		Yellow Green	Water Clear	2.0	2.6	565	570	575	20	35	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
	OSY50805C1E		Yellow	Water Clear	2.1	2.6	585	590	595	100	120	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
	OSO50805C1E		Orange	Water Clear	2.0	2.6	600	605	610	100	120	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
	OSR50805C1E		Red	Water Clear	2.0	2.6	620	625	630	120	150	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
	1206 SMD																					
	OSB51206C1E		Blue	Water Clear	3.1	3.6	460	465	475	80	100	120	20	10	5	30	100	5	108	-40~+85	-40~+85	Reflow
	OSG51206C1E		Ture Green	Water Clear	3.1	3.6	520	525	530	300	350	120	20	10	5	30	100	5	108	-40~+85	-40~+85	
	OSG81206C1E		Yellow Green	Water Clear	2.1	2.6	565	570	575	20	45	120	20	10	5	30	100	5	78	-40~+85	-40~+85	
	OSY51206C1E		Yellow	Water Clear	2.1	2.6	585	590	595	60	90	120	20	10	5	30	100	5	78	-40~+85	-40~+85	
	OSO51206C1E		Orange	Water Clear	2.0	2.6	600	605	610	100	120	120	20	10	5	30	100	5	78	-40~+85	-40~+85	
	OSR51206C1E		Red	Water Clear	2.0	2.6	620	625	630	100	120	120	20	10	5	30	100	5	78	-40~+85	-40~+85	
	1206 Dome Lens																					
	OSB5120641E		Blue	Water Clear	3.0	3.4	460	465	475	650	850	35	20	10	5	30	100	5	102	-30~+85	-40~+100	Reflow
	OSG5120641E		Ture Green	Water Clear	3.0	3.4	515	520	530	2000	2500	35	20	10	5	30	100	5	102	-30~+85	-40~+100	
	OSG8120641E		Yellow Green	Water Clear	2.0	2.4	565	570	575	100	150	35	20	10	5	30	100	5	72	-30~+85	-40~+100	
	OSY5120641E		Yellow	Water Clear	2.0	2.4	585	590	595	300	500	35	20	10	5	30	100	5	72	-30~+85	-40~+100	
	OSO5120641E		Orange	Water Clear	2.0	2.4	600	605	610	300	400	35	20	10	5	30	100	5	72	-30~+85	-40~+100	
	OSR5120641E		Red	Water Clear	2.0	2.4	615	620	630	650	850	35	20	10	5	30	100	5	72	-30~+85	-40~+100	
	0602 Side View SMD																					
	OSB50602C1E		Blue	Water Clear	3.0	3.4	460	465	475	120	210	120	20	10	5	30	100	5	102	-30~+85	-40~+100	Reflow
	OSG50602C1E		Ture Green	Water Clear	3.0	3.4	515	523	530	350	600	120	20	10	5	30	100	5	102	-30~+85	-40~+100	
	OSG80602C1E		Yellow Green	Water Clear	2.0	2.4	565	570	575	25	50	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSY50602C1E		Yellow	Water Clear	2.0	2.4	585	590	595	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSO50602C1E		Orange	Water Clear	2.0	2.4	600	605	610	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSR50602C1E		Red	Water Clear	2.0	2.4	615	620	630	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	0802 Side View SMD																					
	OSB50802C1E		Blue	Water Clear	3.0	3.4	460	465	475	30	70	120	20	10	5	25	100	5	85	-30~+85	-40~+100	Reflow
	OSG50802C1E		Ture Green	Water Clear	3.0	3.4	518	525	530	400	700	120	20	10	5	25	100	5	85	-30~+85	-40~+100	
	OSG80802C1E		Yellow Green	Water Clear	2.0	2.4	565	570	575	25	50	120	20	10	5	25	100	5	65	-30~+85	-40~+100	
	OSY50802C1E		Yellow	Water Clear	2.0	2.4	585	590	595	70	150	120	20	10	5	25	100	5	65	-30~+85	-40~+100	
	OSO50802C1E		Orange	Water Clear	2.0	2.4	600	605	610	70	150	120	20	10	5	25	100	5	65	-30~+85	-40~+100	
	OSR50802C1E		Red	Water Clear	2.0	2.4	617	625	630	70	150	120	20	10	5	25	100	5	65	-30~+85	-40~+100	
	1204 Side View SMD																					
	OSB51204C1E		Blue	Water Clear	3.0	3.4	462	467	472	120	250	120	20	10	5	30	100	5	102	-30~+85	-40~+100	Reflow
	OSG51204C1E		Ture Green	Water Clear	3.0	3.4	518	522	526	350	600	120	20	10	5	30	100	5	102	-30~+85	-40~+100	
	OSG81204C1E		Yellow Green	Water Clear	2.0	2.4	566	569	572	25	50	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSY51204C1E		Yellow	Water Clear	2.0	2.4	586	589	592	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSO51204C1E		Orange	Water Clear	2.0	2.4	600	605	610	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	
	OSR51204C1E		Red	Water Clear	2.0	2.4	617	621	625	70	150	120	20	10	5	25	80	5	60	-30~+85	-40~+100	

Surface Mount LED Series

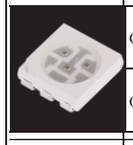
Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength		wd(nm)	Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
	3224 SMD																					
	OSB5322441E		Blue	Water Clear	3.0	3.4	464	468	472	800	1500	35	20	10	5	30	100	5	102	-40~+85	-40~+85	Reflow
	OSG5322441E		Ture Green	Water Clear	3.0	3.4	518	522	526	2000	3500	35	20	10	5	30	100	5	102	-40~+85	-40~+85	
	OSG8322441E		Yellow Green	Water Clear	2.0	2.4	566	569	572	100	150	35	20	10	5	30	100	5	72	-40~+85	-40~+85	
	OSY5322441E		Yellow	Water Clear	2.0	2.4	586	590	592	600	1000	35	20	10	5	30	100	5	72	-40~+85	-40~+85	
	OSO5322441E		Orange	Water Clear	2.0	2.4	600	605	610	600	1000	35	20	10	5	30	100	5	72	-40~+85	-40~+85	
	OSR5322441E		Red	Water Clear	2.0	2.4	617	621	625	600	1000	35	20	10	5	30	100	5	72	-40~+85	-40~+85	
	2016 SMD																					
	OSB42016C1A-60MA		Blue	Water Clear	3.2	3.8	455	460	465	500	750	120	60	10	5	60	100	5	228	-30~+85	-40~+100	Reflow
	OSG52016C1A-60MA		Ture Green	Water Clear	3.2	3.8	520	525	530	3000	3500	120	60	10	5	60	100	5	228	-30~+85	-40~+100	
	OSY52016C1A-60MA		Yellow	Water Clear	2.1	2.6	585	590	595	1120	1560	120	60	10	5	60	100	5	156	-30~+85	-40~+100	
	OSR52016C1A-60MA		Red	Water Clear	2.1	2.6	620	625	630	1120	1560	120	60	10	5	60	100	5	156	-30~+85	-40~+100	
	2835 SMD																					
	OSB42835C1H-60MA		Blue	Water Clear	3.0	3.4	455	460	470	2 lm	2 lm	120	60	10	5	80	150	5	272	-30~+85	-40~+100	Reflow
	OSG52835C1H-60MA		Ture Green	Water Clear	3.0	3.4	520	525	530	10 lm	15 lm	120	60	10	5	80	150	5	272	-30~+85	-40~+100	
	OSY52835C1H-60MA		Yellow	Water Clear	2.0	2.4	585	590	595	4 lm	6 lm	120	60	10	5	80	150	5	192	-30~+85	-40~+100	
	OSR52835C1H-60MA		Red	Water Clear	2.0	2.4	620	625	630	4 lm	6 lm	120	60	10	5	80	150	5	192	-30~+85	-40~+100	
	3014 SMD																					
	OSB43014C1A-30MA		Blue	Water Clear	3.1	3.6	455	460	465	300	400	120	30	10	5	35	100	5	126	-40~+85	-40~+85	Reflow
	OSG53014C1A-30MA		Ture Green	Water Clear	3.1	3.6	520	525	530	1600	2000	120	30	10	5	35	100	5	126	-40~+85	-40~+85	
	OSY53014C1A-30MA		Yellow	Water Clear	2.1	2.6	585	590	595	800	1000	120	30	10	5	35	100	5	91	-40~+85	-40~+85	
	OSR53014C1A-30MA		Red	Water Clear	2.1	2.6	620	625	630	800	1000	120	30	10	5	35	100	5	91	-40~+85	-40~+85	
	3020 SMD																					
	OSB53020C1C		Blue	Water Clear	3.2	3.6	465	470	475	100	200	120	20	10	5	25	100	5	90	-25~+85	-35~+85	Reflow
	OSG53020C1C		Ture Green	Water Clear	3.0	3.6	520	525	530	400	600	120	20	10	5	25	100	5	90	-25~+85	-35~+85	
	OSY53020C1C		Yellow	Water Clear	2.1	2.6	585	590	595	100	200	120	20	10	5	25	100	5	65	-25~+85	-35~+85	
	OSR53020C1C		Red	Water Clear	2.1	2.6	620	625	630	100	200	120	20	10	5	25	100	5	65	-25~+85	-35~+85	
	5630 SMD																					
	OSB55630C1D		Blue	Water Clear	3.1	3.6	455	465	470	5 lm	8 lm	120	150	10	5	150	200	5	540	-30~+85	-40~+100	Reflow
	OSG55630C1D		Ture Green	Water Clear	3.1	3.6	520	525	530	25 lm	30 lm	120	150	10	5	150	200	5	540	-30~+85	-40~+100	
	OSY55630C1D		Yellow	Water Clear	2.1	2.6	585	590	595	10 lm	15 lm	120	150	10	5	150	200	5	390	-30~+85	-40~+100	
	OSR55630C1D		Red	Water Clear	2.1	2.6	620	625	630	10 lm	15 lm	120	150	10	5	150	200	5	390	-30~+85	-40~+100	
	3528 3-Chip PLCC4 Power Top																					
	OSB563S3C1A		Blue	Water Clear	9.3	10.8	465	470	475	1120	1560	120	20	10	15	30	50	15	324	-30~+85	-40~+100	Reflow
	OSG583S3C1A		Pure Green	Water Clear	9.3	10.8	520	525	530	3000	4200	120	20	10	15	30	50	15	324	-30~+85	-40~+100	
	OSR5M3S3C1A		Red	Water Clear	6.3	7.8	620	625	630	2180	3000	120	20	10	15	30	60	15	234	-30~+85	-40~+100	
	OSY5M3S3C1A		Yellow	Water Clear	6.3	7.8	585	590	595	2180	3000	120	20	10	15	30	60	15	234	-30~+85	-40~+100	
	OSO5M3S3C1A		Orange	Water Clear	6.3	7.8	600	605	610	2180	3000	120	20	10	15	30	60	15	234	-30~+85	-40~+100	
	3528 Power Top																					
	OSB56LS3C1A		Blue	Water Clear	3.3	3.8	465	470	475	500	900	120	50	10	5	50	100	5	190	-30~+85	-40~+100	Reflow
	OSG38AS3C1A		Bluish Green	Water Clear	3.3	3.8	500	505	510	2180	3300	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
	OSG58AS3C1A		Pure Green	Water Clear	3.3	3.8	520	525	530	2180	3300	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
	OSR5CAS3C1A		Red	Water Clear	2.2	2.6	620	625	630	2180	2800	120	70	10	5	70	120	5	182	-30~+85	-40~+100	
	OSY5CAS3C1A		Yellow	Water Clear	2.2	2.6	585	590	595	2180	2800	120	70	10	5	70	120	5	182	-30~+85	-40~+100	
	OSO5CAS3C1A		Orange	Water Clear	2.2	2.6	600	605	610	2180	2800	120	70	10	5	70	120	5	182	-30~+85	-40~+100	

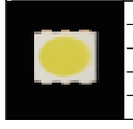
Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Color Temperature CCT(K)
					Typ.	Max.	
	3528 PLCC2 Type						
	OSW43528C1A		Pure White	Yellow Diffused	3.1	3.6	6000-7000K
	OSM43528C1A		Warm White	Yellow Diffused	3.1	3.6	2500-2800K
	OSM53528C1A		Warm White	Yellow Diffused	3.1	3.6	2800-3200K
	OSM63528C1A		Warm White	Yellow Diffused	3.1	3.6	3800-4200K
	5050 PLCC6 Type						
	OSW45050C1A		Pure White	Yellow Diffused	3.1	3.6	6000-7000K
	OSM45050C1A		Warm White	Yellow Diffused	3.1	3.6	2500-2800K
	OSM55050C1A		Warm White	Yellow Diffused	3.1	3.6	2800-3200K
	OSM65050C1A		Warm White	Yellow Diffused	3.1	3.6	3800-4200K

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)		
					Typ.	Max.	Min.	Typ.	Max.
	3528 PLCC2 Type								
	OSB53528C1A		Blue	Water Clear	3.1	3.6	465	470	475
	OSG53528C1A		Pure Green	Water Clear	3.1	3.6	515	522	530
	OSR53528C1A		Red	Water Clear	2.1	2.6	615	622	630
	OSY53528C1A		Yellow	Water Clear	2.1	2.6	580	588	595
	5050 PLCC6 Type								
	OSB55050C1A		Blue	Water Clear	3.1	3.6	465	470	475
	OSG55050C1A		Pure Green	Water Clear	3.1	3.6	515	522	530
	OSR55050C1A		Red	Water Clear	2.1	2.6	615	622	630
	OSY55050C1A		Yellow	Water Clear	2.1	2.6	585	590	595
	Full Color Type								
	OSTC5050C1A		Pure Green	Water Clear	3.1	3.6	520	525	530
			Red		2.1	2.6	620	625	630
			Blue		3.1	3.6	465	470	475
	OSTF5050C1A		Blue	Water Clear	3.1	3.6	465	470	475
			Red		2.1	2.6	620	625	630
			Pure Green		3.1	3.6	520	525	530

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
1560	2180	120	20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
1560	2180	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
1560	2180	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
1560	2180	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
5800	7000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	Reflow
5800	7000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
5800	7000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
5800	7000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
220	330	120	20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
1120	1560	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
500	750	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
500	750	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
750	1120	120	60	10	5	60	100	5	216	-30~+85	-40~+100	Reflow
4200	5800	120	60	10	5	60	100	5	216	-30~+85	-40~+100	
1560	2180	120	60	10	5	60	100	5	156	-30~+85	-40~+100	
1560	2180	120	60	10	5	60	100	5	156	-30~+85	-40~+100	
1800	2000	120	20	10	5	20	100	5	52	-30~+85	-40~+100	Reflow
700	800	120	20	10	5	20	100	5	72	-30~+85	-40~+100	
400	500	120	20	10	5	20	100	5	72	-30~+85	-40~+100	
400	500	120	20	10	5	20	100	5	72	-30~+85	-40~+100	Reflow
700	800	120	20	10	5	20	100	5	72	-30~+85	-40~+100	
1800	2000	120	20	10	5	20	100	5	52	-30~+85	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength	
					Typ.	Max.	Min.	Typ.
	3528 PLCC2 Type							
	OSB5SAS1C1A		Blue	Water Clear	3.1	3.6	465	470
	OSG5DAS1C1A		Pure Green	Water Clear	3.1	3.6	520	525
	OSR5MAS1C1A		Red	Water Clear	2.1	2.6	620	625
	OSY5MAS1C1A		Yellow	Water Clear	2.1	2.6	585	590
	OSO5MAS1C1A		Orange	Water Clear	2.1	2.6	600	605
	OS5RKAS1C1A		Red	Water Clear	2.1	2.6	620	625
	OS5YKAS1C1A		Yellow	Water Clear	2.1	2.6	585	590
	5050 PLCC6 Type							
	OSB5STS4C1A		Blue	Water Clear	3.1	3.6	465	470
	OSG3DTS4C1A		Bluish Green	Water Clear	3.1	3.6	500	505
	OSG5DTS4C1A		Pure Green	Water Clear	3.1	3.6	520	525
	OSR5MTS4C1A		Red	Water Clear	2.1	2.6	620	625
	OSY5MTS4C1A		Yellow	Water Clear	2.1	2.6	585	590
	OSO5MTS4C1A		Orange	Water Clear	2.1	2.6	600	605
	OS5RKTS4C1A		Red	Water Clear	2.1	2.6	620	625
	OS5YKTS4C1A		Yellow	Water Clear	2.1	2.6	585	590
	3528 PLCC4 Bi-Color Type							
	OSRGH4S2C1A		Red	Water Clear	2.1	2.6	620	625
			Yellow Green		2.1	2.6	565	570
	OSRBS4S2C1A		Red	Water Clear	2.1	2.6	620	625
			Blue		3.1	3.6	465	470
	OSRPS4S2C1A		Red	Water Clear	2.1	2.6	620	625
			Pure Green		3.1	3.6	520	525
	OSYGH4S2C1A		Yellow	Water Clear	2.1	2.6	585	590
			Yellow Green		2.1	2.6	565	570
	OSYBS4S2C1A		Yellow	Water Clear	2.1	2.6	585	590
			Blue		3.1	3.6	465	470
	OSBPS4S2C1A		Blue	Water Clear	3.1	3.6	465	470
			Pure Green		3.1	3.6	520	525
	3528 & 5050 Full Color Type							
	OSTBMAS2C1A		Red	Water Clear	2.1	2.6	620	625
			Pure Green		3.1	3.6	520	525
			Blue		3.1	3.6	465	470
	OSTBMAS2C2A		Red	White Diffused	2.1	2.6	620	625
			Pure Green		3.1	3.6	520	525
			Blue		3.1	3.6	465	470
	OSTCMBS4C1A		Pure Green	Water Clear	3.1	3.6	520	525
			Red		2.1	2.6	620	625
			Blue		3.1	3.6	465	470
	OSTCMBS4C2A		Pure Green	White Diffused	3.1	3.6	520	525
			Red		2.1	2.6	620	625
			Blue		3.1	3.6	465	470

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates					
							x			y		
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ	Max.
	3528 3-Chip PLCC4 Power Top Type											
	OSW443S3C1A		Pure White	Yellow Diffused	9.3	10.8	0.27	0.31	0.35	0.29	0.33	0.37
	OSW543S3C1A		Cool White	Yellow Diffused	9.3	10.8	0.23	0.27	0.31	0.24	0.28	0.32
	OSM543S3C1A		Warm White	Yellow Diffused	9.3	10.8	0.41	0.45	0.49	0.37	0.41	0.45
	3528 Power Top SMD											
	OSW54LS3C1A		Cool White	Yellow Diffused	3.3	3.8	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LS3C1A		Warm White	Yellow Diffused	3.3	3.8	0.41	0.45	0.49	0.37	0.41	0.45
	3528 PLCC2 Type											
	OSW54LS1C1A		Cool White	Yellow Diffused	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LS1C1A		Warm White	Yellow Diffused	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LS1C1A		Pink	Red Diffused	3.1	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	5050 PLCC6 Type											
	OSW54TS4C1A		Cool White	Yellow Diffused	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54TS4C1A		Warm White	Yellow Diffused	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK5DTS4C1A		Pink	Red Diffused	3.1	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	OS4WMTS4C1A		Pure White	Yellow Diffused	3.1	3.6	0.27	0.31	0.35	0.29	0.33	0.37
	OS5MMTS4C1A		Warm White	Yellow Diffused	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45

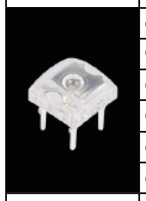
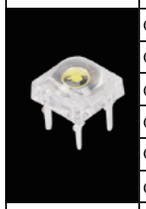
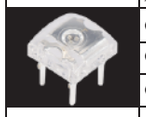
wd(nm)	Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
							I_F	I_{FP}	V_R	P_D	T_{opr}	T_{stg}	
Max.	Min.	Typ.			Max.(uA)		(mA)	(mA)	(V)	(mW)	(℃)	(℃)	
475	220	400	120	20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
530	750	1120	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	750	1000	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
595	750	1000	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
610	750	1000	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
630	1560	2180	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
595	1560	2180	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
475	1120	1560	120	60	10	5	75	100	5	270	-30~+85	-40~+100	Reflow
510	2180	3000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
530	2180	3000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
630	2180	3000	120	60	10	5	90	100	5	234	-30~+85	-40~+100	
595	2180	3000	120	60	10	5	90	100	5	234	-30~+85	-40~+100	
610	2180	3000	120	60	10	5	90	120	5	234	-30~+85	-40~+100	
630	4200	5800	120	60	10	5	90	100	5	234	-30~+85	-40~+100	
595	4200	5800	120	60	10	5	90	100	5	234	-30~+85	-40~+100	
630	100	150	120	20	10	5	30	100	5	78	-30~+85	-40~+100	Reflow
575	45	60	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
630	100	150	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
475	100	130	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	220	300	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
530	330	600	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
595	100	170	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
575	30	50	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
595	330	600	120	20	10	5	30	100	5	78	-30~+85	-40~+100	
475	150	200	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
475	150	200	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
530	330	600	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	750	1000	120	20	10	5	50	120	5	130	-30~+85	-40~+100	Reflow
530	750	900	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
475	220	400	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	330	500	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
530	330	450	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
475	150	200	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
530	750	1120	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	750	1000	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
475	220	400	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
530	330	500	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
630	330	500	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
475	150	200	120	20	10	5	30	100	5	108	-30~+85	-40~+100	

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Reflow
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
7000	8400	120	20	10	15	30	100	15	324	-30~+85	-40~+100	Reflow
7000	8400	120	20	10	15	30	100	15	324	-30~+85	-40~+100	
6000	7400	120	20	10	15	30	100	15	324	-30~+85	-40~+100	
3600	4800	120	50	10	5	50	100	5	190	-30~+85	-40~+100	Reflow
2700	3600	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
2000	2500	120	20	10	5	30	100	5	108	-30~+85	-40~+100	Reflow
1560	2000	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
330	500	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
8400	10000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	Reflow
7000	8000	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
1560	1900	120	60	10	5	75	100	5	270	-30~+85	-40~+100	
14400	18000	120	3*30	10	5	3*40	3*60	5	3*144	-30~+85	-40~+100	
12000	14400	120	3*30	10	5	3*40	3*60	5	3*144	-30~+85	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates					
							x			y		
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ	Max.
	0402 SMD											
	OSWA0402C1C		Pure White	Yellow Diffused	3.2	3.6	0.19	0.24	0.27	0.18	0.23	0.26
	OSM50402C1C		Warm White	Yellow Diffused	3.2	3.6	0.40	0.45	0.48	0.38	0.41	0.45
	0603 SMD											
	OSW50603C1E		Cool White	Yellow Diffused	2.8	3.4	0.23	0.27	0.31	0.24	0.28	0.32
	OSM50603C1E		Warm White	Yellow Diffused	2.8	3.4	0.42	0.44	0.47	0.38	0.41	0.43
	OSK40603C1E		Pink	Pink Diffused	2.8	3.4	0.27	0.31	0.34	0.16	0.20	0.23
	OSVX0603C1E		Violet	Yellow Diffused	2.8	3.4	0.15	0.20	0.22	0.07	0.09	0.11
	OSB60603C1E		Ice Blue	Yellow Diffused	2.8	3.4	0.15	0.18	0.20	0.23	0.26	0.28
	0805 SMD											
	OSW50805C1E		Cool White	Yellow Diffused	3.3	3.6	0.25	0.29	0.31	0.25	0.29	0.31
	OSM50805C1E		Warm White	Yellow Diffused	3.3	3.6	0.41	0.44	0.47	0.38	0.41	0.44
	OSK50805C1E		Pink	Pink Diffused	3.3	3.6	0.34	0.38	0.40	0.14	0.18	0.20
	1206 SMD											
	OSW51206C1E		Cool White	Yellow Diffused	3.3	3.6	0.25	0.29	0.33	0.25	0.29	0.33
	OSM51206C1E		Warm White	Yellow Diffused	3.3	3.6	0.41	0.44	0.47	0.38	0.41	0.44
	OSK51206C1E		Pink	Pink Diffused	3.3	3.6	0.34	0.38	0.40	0.14	0.18	0.20
	0602 Side View SMD											
	OSWA0602C1E		Pure White	Yellow Diffused	3.0	3.4	0.25	0.29	0.32	0.26	0.29	0.34
	0802 Side View SMD											
	OSW50802C1E		Cool White	Yellow Diffused	3.0	3.4	0.25	0.29	0.32	0.26	0.29	0.34
	1204 Side View SMD											
	OSWA1204C1E		Pure White	Yellow Diffused	3.0	3.4	0.25	0.27	0.29	0.26	0.28	0.30
	OSK41204C1E		Pink	Pink Diffused	3.0	3.4	0.17	0.22	0.25	0.06	0.08	0.11
	3224 SMD											
	OSW4322441E		Pure White	Yellow Diffused	3.0	3.4	0.29	0.31	0.33	0.32	0.34	0.36
	2016 SMD											
	OSW42016C1A-60MA		Pure White	Yellow Diffused	3.2	3.8	0.30	0.32	0.34	0.32	0.34	0.37
	OSM52016C1A-60MA		Warm White	Yellow Diffused	3.2	3.8	0.40	0.44	0.47	0.37	0.41	0.43
	3014 SMD											
	OSW43014C1A-30MA		Pure White	Yellow Diffused	3.1	3.6	0.31	0.32	0.33	0.33	0.34	0.35
	OSM53014C1A-30MA		Warm White	Yellow Diffused	3.1	3.6	0.40	0.44	0.47	0.36	0.40	0.44
	2835 SMD											
	OSW42835C1H-60MA		White	Yellow Diffused	3.0	3.4	0.30	0.33	0.36	0.32	0.34	0.37
	OSM52835C1H-60MA		Warm White	Yellow Diffused	3.0	3.4	0.40	0.44	0.47	0.37	0.41	0.43
	3020 SMD											
	OSW43020C1C		Pure White	Yellow Diffused	3.2	3.6	0.30	0.32	0.34	0.32	0.34	0.37
	OSM53020C1C		Warm White	Yellow Diffused	3.2	3.6	0.40	0.44	0.47	0.36	0.40	0.44
	5630 SMD											
	OSW35630C1D		Pure White	Yellow Diffused	3.1	3.6	0.32	0.33	0.35	0.31	0.34	0.36
	OSM55630C1D		Warm White	Yellow Diffused	3.1	3.6	0.40	0.44	0.47	0.36	0.40	0.44
	7020 SMD											
	OSW47020C1A		Pure White	Yellow Diffused	6.0	7.2	0.32	0.33	0.35	0.31	0.34	0.36
	OSM57020C1A		Warm White	Yellow Diffused	6.0	7.2	0.40	0.44	0.47	0.36	0.40	0.44

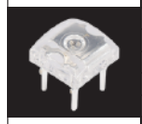
Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
250	400	120	20	10	5	20	100	5	72	-40~+85	-40~+85	Reflow
250	400	120	20	10	5	20	100	5	72	-40~+85	-40~+85	
100	150	120	5	10	5	20	100	5	68	-40~+85	-40~+85	Reflow
60	120	120	5	10	5	20	100	5	68	-40~+85	-40~+85	
50	80	120	5	10	5	20	100	5	68	-40~+85	-40~+85	
70	100	120	5	10	5	20	100	5	68	-40~+85	-40~+85	
80	120	120	5	10	5	20	100	5	68	-40~+85	-40~+85	
350	450	120	20	10	5	30	100	5	108	-40~+85	-40~+85	Reflow
350	450	120	20	10	5	30	100	5	108	-40~+85	-40~+85	
60	90	120	20	10	5	30	100	5	108	-40~+85	-40~+85	
400	450	120	20	10	5	30	100	5	108	-40~+85	-40~+85	Reflow
400	450	120	20	10	5	30	100	5	108	-40~+85	-40~+85	
60	90	120	20	10	5	30	100	5	108	-40~+85	-40~+85	
300	550	120	20	10	5	30	100	5	102	-40~+85	-40~+85	Reflow
300	550	120	20	10	5	25	100	5	108	-40~+85	-40~+85	Reflow
300	450	120	20	10	5	30	100	5	102	-40~+85	-40~+85	Reflow
100	200	120	20	10	5	30	100	5	102	-40~+85	-40~+85	
500	800	35	20	10	5	30	100	5	102	-40~+85	-40~+85	Reflow
7000	8400	120	60	10	5	60	100	5	228	-30~+85	-40~+100	Reflow
5800	7000	120	60	10	5	60	100	5	228	-30~+85	-40~+100	
3000	3500	120	30	10	5	35	100	5	126	-30~+85	-40~+100	Reflow
3000	3500	120	30	10	5	35	100	5	126	-30~+85	-40~+100	
20 lm	22 lm	120	60	10	5	80	150	5	272	-30~+85	-40~+100	Reflow
18 lm	20 lm	120	60	10	5	80	150	5	272	-30~+85	-40~+100	
1600	1800	120	20	10	5	25	100	5	90	-25~+85	-35~+85	Reflow
1600	1800	120	20	10	5	25	100	5	90	-25~+85	-35~+85	
45lm	50lm	120	150	10	5	150	200	5	540	-30~+85	-40~+100	Reflow
40lm	45lm	120	150	10	5	150	200	5	540	-30~+85	-40~+100	
50lm	55lm	120	75	10	5	75	150	5	540	-40~+85	-40~+85	Reflow
45lm	50lm	120	75	10	5	75	150	5	540	-40~+85	-40~+85	

Super Flux LED Series

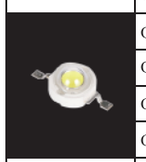
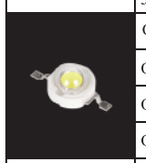
Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Chromaticity Coordinates					
							x			y		
					Typ.	Max.	Min.	Typ	Max.	Min.	Typ	Max.
	3-Chip Φ5 Type											
	OS4WMEZ2C1P		Pure White	Water Clear	3.1	3.6	0.27	0.31	0.35	0.29	0.33	0.37
	OS5WMEZ2C1P		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OS5MMEZ2C1P		Warm White	Water Clear	3.1	3.6	0.41	0.44	0.49	0.37	0.41	0.45
	3-Chip Arc Type											
	OSW443Z4E1P		Pure White	Water Clear	9.3	10.8	0.27	0.31	0.35	0.29	0.33	0.37
	OSW543Z4E1P		Cool White	Water Clear	9.3	10.8	0.23	0.27	0.31	0.24	0.28	0.32
	OSM543Z4E1P		Warm White	Water Clear	9.3	10.8	0.41	0.45	0.49	0.37	0.41	0·45
	OSW44EZ4E1P		Pure White	Water Clear	3.1	3.6	0.27	0.31	0.35	0.29	0.33	0.37
	OSW54EZ4E1P		Cool White	Water Clear	3.1	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54EZ4E1P		Warm White	Water Clear	3.1	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	Φ5 Deluxe Power Type											
	OS4WFLZ2C1P		Pure White	Water Clear	3.2	3.6	0.27	0.31	0.35	0.29	0.33	0.37
	OS5MFLZ2C1P		Warm White	Water Clear	3.2	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSW54LZ2C1P		Cool White	Water Clear	3.3	3.8	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LZ2C1P		Warm White	Water Clear	3.3	3.8	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LZ2C1P		Pink	Water Clear	3.3	3.8	0.41	0.45	0.49	0.13	0.17	0.21
	Φ3 Type											
	OSW54LZ161D		Cool White	Water Clear	3.2	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LZ161D		Warm White	Water Clear	3.2	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LZ161D		Pink	Water Clear	3.2	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	3-Chip Φ7 Type											
	OS4WMEZ5D1P		Pure White	Water Clear	3.0	3.4	0.27	0.31	0.35	0.29	0.33	0.37
	OS5WMEZ5D1P		Cool White	Water Clear	3.0	3.4	0.23	0.27	0.31	0.24	0.28	0.32
	OS5MMEZ5D1P		Warm White	Water Clear	3.0	3.4	0.41	0.44	0.49	0.37	0.41	0.45
	OS4WM3Z5D1P		Pure White	Water Clear	9.0	10.2	0.27	0.31	0.35	0.29	0.33	0.37
	OS5WM3Z5D1P		Cool White	Water Clear	9.0	10.2	0.23	0.27	0.31	0.24	0.28	0.32
	OS5MM3Z5D1P		Warm White	Water Clear	9.0	10.2	0.41	0.44	0.49	0.37	0.41	0.45
	Arc Type											
	OSW54LZ4E1D		Cool White	Water Clear	3.2	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LZ4E1D		Warm White	Water Clear	3.2	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LZ4E1D		Pink	Water Clear	3.2	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	Flat Type											
	OSW54LZ3K1D		Cool White	Water Clear	3.2	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LZ3K1D		Warm White	Water Clear	3.2	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LZ3K1D		Pink	Water Clear	3.2	3.6	0.41	0.45	0.49	0.13	0.17	0.21
	Φ5 Type											
	OSW54LZ2C1D		Cool White	Water Clear	3.2	3.6	0.23	0.27	0.31	0.24	0.28	0.32
	OSM54LZ2C1D		Warm White	Water Clear	3.2	3.6	0.41	0.45	0.49	0.37	0.41	0.45
	OSK54LZ2C1D		Pink	Water Clear	3.2	3.6	0.41	0.45	0.49	0.13	0.17	0.21

Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
						I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
Min.	Typ.											
19000	21000	120	90	10	5	90	180	5	324	-30~+85	-40~+100	Wave Soldering
20000	22000	120	90	10	5	90	180	5	324	-30~+85	-40~+100	
16000	18000	120	90	10	5	90	180	5	324	-30~+85	-40~+100	
7500	10000	140	30	10	15	30	50	15	324	-30~+85	-40~+100	
7500	10000	140	30	10	15	30	50	15	324	-30~+85	-40~+100	
6500	8500	140	30	10	15	30	50	15	324	-30~+85	-40~+100	
7500	10000	140	90	10	5	90	120	5	324	-30~+85	-40~+100	
7500	10000	140	90	10	5	90	120	5	324	-30~+85	-40~+100	
6500	8500	140	90	10	5	90	120	5	324	-30~+85	-40~+100	
10000	14000	120	50	10	5	60	100	5	216	-30~+85	-40~+100	Wave Soldering
9000	12000	120	50	10	5	60	100	5	216	-30~+85	-40~+100	
10000	12000	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
6000	8600	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
1100	1400	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
10000	12000	60	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
7000	8400	60	30	10	5	50	100	5	180	-30~+85	-40~+100	
2400	3000	60	30	10	5	50	100	5	180	-30~+85	-40~+100	
10000	12000	130	90	30	5	90	180	5	306	-30~+85	-40~+100	Wave Soldering
12000	14400	130	90	30	5	90	180	5	306	-30~+85	-40~+100	
8400	10000	130	90	30	15	90	180	15	306	-30~+85	-40~+100	
10000	12000	130	30	10	15	30	60	15	306	-30~+85	-40~+100	
12000	14400	130	30	10	15	30	60	15	306	-30~+85	-40~+100	
8400	10000	130	30	10	15	30	60	15	306	-30~+85	-40~+100	
1870	2400	140	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
900	1400	140	30	10	5	50	100	5	180	-30~+85	-40~+100	
260	400	140	30	10	5	50	100	5	180	-30~+85	-40~+100	
1350	1900	180	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
900	1200	180	30	10	5	50	100	5	180	-30~+85	-40~+100	
260	360	180	30	10	5	50	100	5	180	-30~+85	-40~+100	
5000	7200	120	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
2600	4200	120	30	10	5	50	100	5	180	-30~+85	-40~+100	
900	1200	120	30	10	5	50	100	5	180	-30~+85	-40~+100	

Super Flux LED Series

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		Dominant Wavelength wd(nm)			Luminous Intensity (mcd)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
					Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
	Φ5 Deluxe Power Type																					
	OSB56LZ2C1P		Blue	Water Clear	3.2	3.8	465	470	475	2600	3600	120	50	10	5	50	100	5	190	-30~+85	-40~+100	Wave Soldering
	OSG58AZ2C1P		Pure Green	Water Clear	3.2	3.8	520	525	530	10000	12000	120	50	10	5	50	100	5	190	-30~+85	-40~+100	
	OSR5PAZ2C1P		Red	Water Clear	2.2	2.6	620	625	630	3600	4800	120	50	10	5	50	130	5	182	-30~+85	-40~+100	
	OSY5PAZ2C1P		Yellow	Water Clear	2.2	2.6	585	590	595	3600	4800	120	50	10	5	50	130	5	182	-30~+85	-40~+100	
	OSO5PAZ2C1P		Orange	Water Clear	2.2	2.6	600	605	610	3600	4800	120	50	10	5	50	130	5	182	-30~+85	-40~+100	
	OS5RKAZ2C1P		Red	Water Clear	2.2	2.6	620	625	630	8400	10000	120	70	10	5	70	130	5	196	-30~+85	-40~+100	
	OS5YKAZ2C1P		Yellow	Water Clear	2.2	2.6	585	590	595	8400	10000	120	70	10	5	70	130	5	196	-30~+85	-40~+100	
	OSO5CAZ2C1P		Orange	Water Clear	2.2	2.6	600	605	610	7000	8400	120	70	10	5	70	130	5	182	-30~+85	-40~+100	
	Φ7 Deluxe Power Type																					
	OSB56LZ5D1P		Blue	Water Clear	3.1	3.6	465	470	475	750	1120	130	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
	OSG58AZ5D1P		Pure Green	Water Clear	3.1	3.6	520	525	530	3000	4200	130	30	10	5	50	100	5	180	-30~+85	-40~+100	
	OSR5PAZ5D1P		Red	Water Clear	2.4	2.8	619	624	629	1560	2180	130	50	10	5	50	100	5	140	-30~+85	-40~+100	
	OSY5PAZ5D1P		Yellow	Water Clear	2.4	2.8	585	590	595	1560	2180	130	50	10	5	50	100	5	140	-30~+85	-40~+100	
	OSO5PAZ5D1P		Orange	Water Clear	2.4	2.8	600	605	610	1560	2180	130	50	10	5	50	100	5	140	-30~+85	-40~+100	
	OS5RKAZ5D1P		Red	Water Clear	2.4	2.8	619	624	629	3000	4800	130	70	10	5	70	120	5	196	-30~+85	-40~+100	
	OS5YKAZ5D1P		Yellow	Water Clear	2.4	2.8	585	590	595	3000	4800	130	70	10	5	70	120	5	196	-30~+85	-40~+100	
	Φ3 Type																					
	OSB56LZ161D		Blue	Water Clear	3.2	3.6	465	470	475	4000	5000	60	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
	OSG58AZ161D		Pure Green	Water Clear	3.2	3.6	520	525	530	12000	15000	60	30	10	5	50	100	5	180	-30~+85	-40~+100	
	OSR5PAZ161D		Red	Water Clear	2.2	2.6	620	625	630	7000	8400	60	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PAZ161D		Yellow	Water Clear	2.2	2.6	585	590	595	7000	8400	60	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PAZ161D		Orange	Water Clear	2.2	2.6	600	605	610	7000	8400	60	50	10	5	50	120	5	130	-30~+85	-40~+100	
	Arc Type																					
	OSB56LZ4E1D		Blue	Water Clear	3.2	3.6	465	470	475	500	750	140	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
	OSG58AZ4E1D		Pure Green	Water Clear	3.2	3.6	520	525	530	3000	4000	140	30	10	5	50	100	5	180	-30~+85	-40~+100	
	OSR5PAZ4E1D		Red	Water Clear	2.2	2.6	620	625	630	750	1200	140	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PAZ4E1D		Yellow	Water Clear	2.2	2.6	585	590	595	750	1200	140	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PAZ4E1D		Orange	Water Clear	2.2	2.6	600	605	610	750	1200	140	50	10	5	50	120	5	130	-30~+85	-40~+100	
	Flat Type																					
	OSB56LZ3K1D		Blue	Water Clear	3.2	3.6	465	470	475	500	700	180	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
	OSG58AZ3K1D		Pure Green	Water Clear	3.2	3.6	520	525	530	2180	3000	180	30	10	5	50	100	5	180	-30~+85	-40~+100	
	OSR5PAZ3K1D		Red	Water Clear	2.2	2.6	620	625	630	750	1000	180	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PAZ3K1D		Yellow	Water Clear	2.2	2.6	585	590	595	750	1000	180	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PAZ3K1D		Orange	Water Clear	2.2	2.6	600	605	610	750	1000	180	50	10	5	50	120	5	130	-30~+85	-40~+100	
	Concave Deluxe Power Type																					
	OS5RKAZJC1P		Red	Water Clear	2.2	2.8	620	625	630	2600	3000	120	70	10	5	70	120	5	196	−30~+85	−40~+100	Wave Soldering
	OS5YKAZJC1P		Yellow	Water Clear	2.2	2.8	585	590	595	2600	3000	120	70	10	5	70	120	5	496	-30~+85	-40~+100	
	Φ5 Type																					
	OSB56LZ2C1D		Blue	Water Clear	3.2	3.6	465	470	475	2180	3000	120	30	10	5	50	100	5	180	-30~+85	-40~+100	Wave Soldering
	OSG58AZ2C1D		Pure Green	Water Clear	3.2	3.6	520	525	530	8400	10000	120	30	10	5	50	100	5	180	-30~+85	-40~+100	
	OSR5PAZ2C1D		Red	Water Clear	2.2	2.6	620	625	630	3000	4000	120	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSY5PAZ2C1D		Yellow	Water Clear	2.2	2.6	585	590	595	3000	4000	120	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSO5PAZ2C1D		Orange	Water Clear	2.2	2.6	600	605	610	3000	4000	120	50	10	5	50	120	5	130	-30~+85	-40~+100	
	OSTBMAZ2C1D		Red	Water Clear	2.1	2.6	620	625	630	1560	2300	120	20	10	5	50	120	5	130	-30~+85	-40~+100	
			Pure Green		3.1	3.6	520	525	530	3000	4000	120	20	10	5	30	100	5	108	-30~+85	-40~+100	
			Blue		3.1	3.6	465	470	475	750	1200	120	20	10	5	30	100	5	108	-30~+85	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF(V)		Color Temperature	
					Typ.	Max.	Min.	Typ.
	1W Tops Power Type							
	OSW4XAT1C1E		Pure White	Yellow Diffused	3.3	4.0	6000	6500
	OSM5XAT1C1E		Warm White	Yellow Diffused	3.3	4.0	2800	3000
	3W Tops Power Type							
	OSW4XAT3C1E		Pure White	Yellow Diffused	3.5	4.5	6000	6500
	OSM5XAT3C1E		Warm White	Yellow Diffused	3.5	4.5	2800	3000
	1W Xeon Power Type							
	OSW4XNE1E1E		Pure White	Water Clear	3.3	4.0	6000	6500
	OSM5XNE1E1E		Warm White	Water Clear	3.3	4.0	2800	3000
	3W Xeon Power Type							
	OSW4XNE3E1E		Pure White	Water Clear	3.5	4.5	6000	6500
	OSM5XNE3E1E		Warm White	Water Clear	3.5	4.5	2800	3000
	1W 3-chip Xeon Power Type							
	OSW4Z3E1E1E		Pure White	Water Clear	9.6	11.8	6000	6500
	OSM5Z3E1E1E		Warm White	Water Clear	9.6	11.8	2800	3000

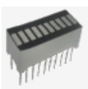
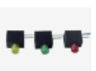
Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF(V)		Wavelength	
					Typ.	Max.	Min.	Typ.
	1W Xeon Power Type							
	OSB4XNE1E1E		Blue	Water Clear	3.3	4.0	455	460
	OSG5XNE1E1E		Pure Green	Water Clear	3.3	4.0	520	525
	OSR5XNE1E1E		Red	Water Clear	2.5	3.0	620	625
	OSY5XNE1E1E		Yellow	Water Clear	2.5	3.0	585	590
	3W Xeon Power Type							
	OSB4XNE3E1E		Blue	Water Clear	3.5	4.5	455	460
	OSG5XNE3E1E		Pure Green	Water Clear	3.5	4.5	520	525
	OSR5XNE3E1E		Red	Water Clear	2.5	3.0	620	625
	OSY5XNE3E1E		Yellow	Water Clear	2.5	3.0	585	590
	Xeon 1 Power Full Color Type							
	OSTCXBEAE1E		Pure Green	Water Clear	3.3	4.0	520	525
			Red		2.5	3.0	620	625
			Blue		3.3	4.0	455	460
	Tops H Power Full Color Type							
	OSTCXBTHC1E		Pure Green	Water Clear	3.1	3.6	520	525
			Red		2.1	2.6	620	625
			Blue		3.1	3.6	455	460

CCT(K)	Luminous Flux (lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Max.	Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
7000	90	100	120	350	10	5	400	500	5	1600	-30~+85	-40~+100	Reflow
3200	80	90	120	350	10	5	400	500	5	1600	-30~+85	-40~+100	
7000	180	200	120	700	10	5	800	1000	5	3600	-30~+85	-40~+100	Reflow
3200	160	180	120	700	10	5	800	1000	5	3600	-30~+85	-40~+100	
7000	110	120	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	Reflow
3200	100	110	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	
7000	200	220	140	700	10	5	800	1000	5	3600	-30~+85	-40~+100	Reflow
3200	190	210	140	700	10	5	800	1000	5	3600	-30~+85	-40~+100	
7000	90	100	140	120	10	15	150	300	15	1770	-30~+85	-40~+100	Hand Soldering
3200	80	90	140	120	10	15	150	300	15	1770	-30~+85	-40~+100	

wd(nm)	Luminous Flux (lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Max.	Min.	Typ.					I_F (mA)	I_{FP}*1 (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
465	15	20	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	Reflow
530	70	80	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	
630	40	50	140	350	10	5	400	500	5	1200	-30~+85	-40~+100	
595	40	50	140	350	10	5	400	500	5	1200	-30~+85	-40~+100	
465	30	40	140	700	10	5	800	1000	5	3600	-30~+85	-40~+100	Reflow
530	120	130	140	700	10	5	800	1000	5	3600	-30~+85	-40~+100	
630	70	80	140	700	10	5	800	1000	5	2400	-30~+85	-40~+100	
595	70	80	140	700	10	5	800	1000	5	2400	-30~+85	-40~+100	
530	80	90	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	Reflow
630	40	45	140	350	10	5	400	500	5	1200	-30~+85	-40~+100	
465	15	20	140	350	10	5	400	500	5	1600	-30~+85	-40~+100	
530	20	30	120	150	10	5	200	250	5	720	-30~+85	-40~+100	Reflow
630	15	20	120	150	10	5	200	250	5	520	-30~+85	-40~+100	
465	5	10	120	150	10	5	200	250	5	720	-30~+85	-40~+100	

Package	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)		CCT(K)		
					Typ.	Max.	Min.	Typ.	Max.
	3W MCPCB COB LED								
	OSW41313E1E-2B3C		Pure White	Yellow Diffused	10.2	11.4	5500	6500	7500
	OSM51313E1E-2B3C		Warm White	Yellow Diffused	10.2	11.4	2800	3000	3200
	OSW41215E1E-2B3C		Pure White	Yellow Diffused	10.2	11.4	5500	6500	7500
	OSM51215E1E-2B3C		Warm White	Yellow Diffused	10.2	11.4	2800	3000	3200
	5W MCPCB COB LED								
	OSW41313E1E-2B5C		Pure White	Yellow Diffused	17	19	5500	6500	7500
	OSM51313E1E-2B5C		Warm White	Yellow Diffused	17	19	2800	3000	3200
	OSW41215E1E-2B5C		Pure White	Yellow Diffused	17	19	5500	6500	7500
	OSM51215E1E-2B5C		Warm White	Yellow Diffused	17	19	2800	3000	3200
	5W High Power Type								
	OSW4XAH5E1E		Pure White	Yellow Diffused	10.0	11.4	6000	6500	7000
	OSM5XAH5E1E		Warm White	Yellow Diffused	10.0	11.4	2800	3000	3200
	10W High Power Type								
	OSW4XAHAE1E		Pure White	Yellow Diffused	11.0	12.6	6000	6500	7000
	OSM5XAHAE1E		Warm White	Yellow Diffused	11.0	12.6	2800	3000	3200
	25W High Power Type								
	OSW4XAHBE1E		Pure White	Yellow Diffused	34	38	6000	6500	7000
	OSM5XAHBE1E		Warm White	Yellow Diffused	34	38	2800	3000	3200
	50W High Power Type								
	OSW4XAHCE1E		Pure White	Yellow Diffused	34	38	6000	6500	7000
	OSM5XAHCE1E		Warm White	Yellow Diffused	34	38	2800	3000	3200

Lumen Flux (Lm)		Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃)						Mounting
Min.	Typ.					I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	
260	300	140	300	20	15	400	600	15	4560	-30~+85	-40~+100	Hand Soldering
230	260	140	300	20	15	400	600	15	4560	-30~+85	-40~+100	
260	300	140	300	20	15	400	600	15	4560	-30~+85	-40~+100	Hand Soldering
230	260	140	300	20	15	400	600	15	4560	-30~+85	-40~+100	
460	500	140	300	20	25	400	600	25	7600	-30~+85	-40~+100	Hand Soldering
430	460	140	300	20	25	400	600	25	7600	-30~+85	-40~+100	
460	500	140	300	20	25	400	600	25	7600	-30~+85	-40~+100	Hand Soldering
430	460	140	300	20	25	400	600	25	7600	-30~+85	-40~+100	
350	410	140	500	30	15	600	1000	15	6840	-30~+85	-40~+100	Hand Soldering
300	370	140	500	30	15	600	1000	15	6840	-30~+85	-40~+100	
750	850	140	1000	20	15	1400	2000	15	17640	-30~+85	-40~+100	Hand Soldering
670	765	140	1000	20	15	1400	2000	15	17640	-30~+85	-40~+100	
1700	2000	140	750	50	50	1000	1500	50	38000	-30~+85	-40~+100	Hand Soldering
1500	1800	140	750	50	50	1000	1500	50	38000	-30~+85	-40~+100	
3000	3500	140	1500	100	50	2000	2500	50	76000	-30~+85	-40~+100	Hand Soldering
2000	2500	140	1500	100	50	2000	2500	50	76000	-30~+85	-40~+100	

Package	Part Number	Emitting Color	Surface Color	Forward Voltage VF (V)			Dominant Wavelength wd(nm)			Luminous Intensity (mcd)	
				Min	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.
0.2Inch Ten Digit Display											
	OSX10201-B	Blue	Black	-	3.1	3.6	-	465	-	-	50
	OSX10201-G	Pure Green	Black	-	3.1	3.6	-	512	-	-	262
	OSX10201-YG	Yellow Green	Black	-	2.1	2.5	-	570	-	-	35
	OSX10201-Y	Yellow	Black	-	2.1	2.5	-	587	-	-	35
	OSX10201-R	Red	Black	-	2.1	2.5	-	632	-	-	35
	OSX10201-GYR1	Yellow Green	Black	-	2.1	2.5	-	570	-	-	35
		Yellow		-	2.1	2.5	-	587	-	-	35
		Red		-	2.1	2.5	-	632	-	-	35
	OSX10201-GGR1	Yellow Green	Black	-	2.1	2.5	-	570	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
		Red		-	2.1	2.5	-	632	-	-	35
	OSX10201-RGG1	Red	Black	-	2.1	2.5	-	632	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
	OSX10201-YGR1	Yellow	Black	-	2.1	2.5	-	587	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
		Red		-	2.1	2.5	-	632	-	-	35
	OSX10201-RPB1	Red	Black	-	2.1	2.5	-	632	-	-	35
		Pure Green		-	3.1	3.6	-	512	-	-	262
		Blue		-	3.3	3.6	-	465	-	-	50
	OSX10201-RGY1	Red	Black	-	2.1	2.5	-	632	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
		Yellow		-	2.1	2.5	-	587	-	-	35
	OSX10201-RGB1	Red	Black	-	2.1	2.5	-	632	-	-	35
		Yellow Green		-	2.1	2.5	-	570	-	-	35
		Blue		-	3.3	3.6	-	465	-	-	50
3mm Housing LED											
	OSTSLT3E34X-3F3C	Red	Color Diffused	1.8	2.1	2.6	630	635	650	100	150
		Yellow	Color Diffused	1.8	2.1	2.6	585	590	595	100	150
		Yellow Green	Color Diffused	1.8	2.1	2.6	565	570	575	68	100
	OSRGLX3E34X-3F2B	Red	Color Diffused	1.8	2.1	2.6	630	640	650	100	150
		Yellow Green	Color Diffused	1.8	2.1	2.6	565	570	575	68	100
	OSR6LU3E34X-3F1A	Red	Color Diffused	1.8	2.1	2.6	630	640	650	100	150
	OSG8HA3E34X-3F1A	Green	Color Diffused	1.9	2.1	2.6	565	570	575	68	100
	OSY5LU3E34X-3F1A	Yellow	Color Diffused	1.8	2.1	2.6	585	590	595	110	220

Package	Part Number	Receiver Color	Lens Type	Supply Voltage (Vcc)		Peak Wavelength wp(nm)			Reception Distance (m)		Half Angle
				Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	
Infrared Receiver Module											
	OSRB38C9AA	Infrared	Black+Metal Cover	3	5.5	-	940	-	15	20	90
	OSRB38C9AB	Infrared	Black+Metal Cover	3	5.5	-	940	-	15	20	90
	OSRB38C9BA	Infrared	Black	3	5.5	-	940	-	15	20	90
	OSRB38C9BB	Infrared	Black	3	5.5	-	940	-	15	20	90

Directivity 2θ1/2 (degree)	IF (mA)	Reverse CurrentI_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
-	20	10	5	20	100	5	72	-30~+70	-40~+85	Wave Soldering
-	20	10	5	20	100	5	72	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	72	-30~+70	-40~+85	
-	20	10	5	20	100	5	72	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	62.5	-30~+70	-40~+85	
-	20	10	5	20	100	5	72	-30~+70	-40~+85	

30	20	10	5	20	100	5	78	-30~+85	-40~+100	Hand Soldering
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	
30	20	10	5	20	100	5	78	-30~+85	-40~+100	

B.P.F. Center Frequency (KHz)	View	Current Consumption (mA)	Low level Output Voltage (V)	Burst width tolerance (us)		Absolute Maximum Rating (Ta=25℃)			Mounting
				Typ	Max	Vcc (v)	T_{opr} (℃)	T_{stg} (℃)	
37.9	Side view	0.9	0.2	600	800	6	-10~+60	-20~+75	Wave Soldering
37.9	Top view	0.9	0.2	600	800	6	-10~+60	-20~+75	
37.9	Side view	0.9	0.2	600	800	6	-10~+60	-20~+75	
37.9	Top view	0.9	0.2	600	800	6	-10~+60	-20~+75	

Package / Wire:100mm	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)	Chromaticity Coordinates x			
					Typ.	Min.	Typ.	Max.	Min.
	DC 12V LED Module For Lighthing								
	OSW5G45161A-CCW		Cool White	Water Clear	12	0.23	0.27	0.31	0.24
	OSM5G45161A-CCW		Warm White	Water Clear	12	0.41	0.45	0.49	0.37
	DC 24V LED Module For Lighthing								
	OS5WNL5161A-KKW		Cool White	Water Clear	24	0.23	0.27	0.31	0.24
	OS5MNL5161A-KKW		Warm White	Water Clear	24	0.41	0.45	0.49	0.37
	AC 110V LED Module For Lighthing								
	OS5W7L5161A-PPW		Cool White	Water Clear	110	0.23	0.27	0.31	0.24
	OS5M7L5161A-PPW		Warm White	Water Clear	110	0.41	0.45	0.49	0.37

Package / Wire:100mm	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)	Chromaticity Coordinates x			
					Typ.	Min.	Typ.	Max.	Min.
	DC 12V LED Module For Indicating								
	OSW5DK5111A-CCW		Cool White	Water Clear	12	0.23	0.27	0.31	0.24
	OSM5DK5111A-CCW		Warm White	Water Clear	12	0.41	0.45	0.49	0.37
	DC 24V LED Module For Indicating								
	OSW5DK5111A-KKW		Cool White	Water Clear	24	0.23	0.27	0.31	0.24
	OSM5DK5111A-KKW		Warm White	Water Clear	24	0.41	0.45	0.49	0.37
	AC 110V LED Module For Indicating								
	OSWWD25111A-PPW		Cool White	Water Clear	110	0.23	0.27	0.31	0.24
	OSMMD25111A-PPW		Warm White	Water Clear	110	0.41	0.45	0.49	0.37
	AC 220V LED Module For Indicating								
	OSWWD25111A-QQW		Cool White	Water Clear	220	0.23	0.27	0.31	0.24
	OSMMD25111A-QQW		Warm White	Water Clear	220	0.41	0.45	0.49	0.37

Package / Wire:100mm	Part Number	Emitting Color		Lens Type	Forward Voltage VF (V)	Dominant Wavelength	
					Typ.	Min.	Typ.
	DC 12V LED Module For Indicating						
	OSB5SA5111A-CCW		Blue	Water Clear	12	465	470
	OSG5DA5111A-CCW		Pure Green	Water Clear	12	520	525
	OSG8JA5111A-CCW		Yellow Green	Water Clear	12	565	570
	OSY5JA5111A-CCW		Yellow	Water Clear	12	585	590
	OSO5JA5111A-CCW		Orange	Water Clear	12	600	605
	OSR5JA5111A-CCW		Red	Water Clear	12	620	625
	DC 24V LED Module For Indicating						
	OSB5SA5111A-KKW		Blue	Water Clear	24	465	470
	OSG5DA5111A-KKW		Pure Green	Water Clear	24	520	525
	OSG8JA5111A-KKW		Yellow Green	Water Clear	24	565	570
	OSY5JA5111A-KKW		Yellow	Water Clear	24	585	590
	OSO5JA5111A-KKW		Orange	Water Clear	24	600	605
	OSR5JA5111A-KKW		Red	Water Clear	24	620	625
	AC 110V LED Module For Indicating						
	OSBBS25111A-PPW		Blue	Water Clear	110	465	470
	OSPPD25111A-PPW		Pure Green	Water Clear	110	520	525
	OSGGJ25111A-PPW		Yellow Green	Water Clear	110	565	570
	OSYYJ25111A-PPW		Yellow	Water Clear	110	585	590
	OSOOJ25111A-PPW		Orange	Water Clear	110	600	605
	OSRRJ25111A-PPW		Red	Water Clear	110	620	625
	AC 220V LED Module For Indicating						
	OSBBS25111A-QQW		Blue	Water Clear	220	465	470
	OSPPD25111A-QQW		Pure Green	Water Clear	220	520	525
	OSGGJ25111A-QQW		Yellow Green	Water Clear	220	565	570
	OSYYJ25111A-QQW		Yellow	Water Clear	220	585	590
	OSOOJ25111A-QQW		Orange	Water Clear	220	600	605
	OSRRJ25111A-QQW		Red	Water Clear	220	620	625

y Type	y Max.	Luminous Flux (1m) Min.	Typ.	Max	Directivity 2θ1/2 (degree)	IF (mA) Min.	Typ.	Max	Reverse Current I_R Max.(uA)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_P (mA)	V_F (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
0.28	0.32	26	28	-	60	13	15	20	-	20	-	14	280	-30~+85	-30~+85	Hand Soldering
0.41	0.45	22	24	-	60	13	15	20	-	20	-	14	280	-30~+85	-30~+85	
0.28	0.32	28	30	-	60	8	9	10	-	10	-	28	280	-30~+85	-30~+85	Hand Soldering
0.41	0.45	23	25	-	60	8	9	10	-	10	-	28	280	-30~+85	-30~+85	
0.28	0.32	28	30	-	60	5	6	7	-	7	-	115	805	-30~+85	-30~+85	Hand Soldering
0.41	0.45	23	25	-	60	5	6	7	-	7	-	115	805	-30~+85	-30~+85	

y Type	y Max.	Luminous Intensity (mcd) Min.	Typ.	Max	Directivity 2θ1/2 (degree)	IF (mA) Min.	Typ.	Max	Reverse Current I_R Max.(uA)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_F (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
0.28	0.32	10000	12000	14400	15	6	7	8	-	8.0	-	14	112	-30~+85	-30~+85	Hand Soldering
0.41	0.45	8400	10000	12000	15	6	7	8	-	8.0	-	14	112	-30~+85	-30~+85	
0.28	0.32	10000	12000	14400	15	6	7	8	-	8.0	-	28	224	-30~+85	-30~+85	Hand Soldering
0.41	0.45	8400	10000	12000	15	6	7	8	-	8.0	-	28	224	-30~+85	-30~+85	
0.28	0.32	1120	1560	2180	15	0.7	0.9	1.0	-	1.0	-	120	120	-30~+85	-30~+85	Hand Soldering
0.41	0.45	750	1120	1560	15	0.7	0.9	1.0	-	1.0	-	120	120	-30~+85	-30~+85	
0.28	0.32	1120	1560	2180	15	0.7	0.9	1.0	-	1.0	-	230	230	-30~+85	-30~+85	Hand Soldering
0.41	0.45	750	1120	1560	15	0.7	0.9	1.0	-	1.0	-	230	230	-30~+85	-30~+85	

wd(nm) Max.	Luminous Intensity (mcd) Min.	Typ.	Max	Directivity 2θ1/2 (degree)	IF (mA) Min.	Typ.	Max	Reverse Current I_R Max.(uA)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_F (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
475	3000	4200	5800	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	Hand Soldering
530	12000	14400	18000	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	
575	330	500	750	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	
595	1120	1560	2180	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	
610	1560	2180	3000	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	
630	1120	1560	2180	15	6	7	8	-	8	-	14	112	-30~+85	-30~+85	
475	3000	4200	5800	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	Hand Soldering
530	12000	14400	18000	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	
575	330	500	750	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	
595	1120	1560	2180	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	
610	1560	2180	3000	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	
630	1120	1560	2180	15	6	7	8	-	8	-	28	224	-30~+85	-30~+85	
475	750	1120	1560	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	Hand Soldering
530	1120	1560	2180	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	
575	20	40	50	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	
595	100	150	220	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	
610	150	220	330	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	
630	100	150	220	15	0.7	0.9	1.0	-	1	-	120	120	-30~+85	-30~+85	
475	750	1120	1560	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	Hand Soldering
530	1120	1560	2180	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	
575	20	40	50	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	
595	100	150	220	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	
610	150	220	330	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	
630	100	150	220	15	0.7	0.9	1.0	-	1	-	230	230	-30~+85	-30~+85	

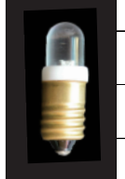
Package: Pin Type (Pin:13mm)	Package: Wire Type (Wire:40mm)	Part Number	Emitting Color	Lens Type	Forward Voltage VF(V) Min.	Forward Voltage VF(V) Typ.	Forward Voltage VF(V) Max.	Dominant Wavelength wd(nm) Min.	Dominant Wavelength wd(nm) Typ.	Dominant Wavelength wd(nm) Max.	Luminous Intensity (mcd) Min.	Luminous Intensity (mcd) Typ.
		5mm Constant Current 4.5-18V LED										
		OSW4DK5111A-5JP/5JW	Pure White	Water Clear	4.5	-	18	X=0.31, Y=0.33			18000	20000
		OSW5DK5111A-5JP/5JW	Cool White	Water Clear	4.5	-	18	X=0.27, Y=0.28			20000	22000
		OSM5DK5111A-5JP/5JW	Warm White	Water Clear	4.5	-	18	X=0.45, Y=0.41			15000	18000
		OSB5SA5111A-5JP/5JW	Blue	Water Clear	4.5	-	18	465	470	475	5800	7000
		OSG5DA5111A-5JP/5JW	Pure Green	Water Clear	4.5	-	18	520	525	530	20000	22000
		OSY5PA5111A-5JP/5JW	Yellow	Water Clear	4.5	-	18	585	590	595	18000	20000
		OSO5PA5111A-5JP/5JW	Orange	Water Clear	4.5	-	18	600	605	610	20000	22000
OSXXXX5111A-5JP	OSXXXX5111A-5JW	OSR5PA5111A-5JP/5JW	Red	Water Clear	4.5	-	18	620	625	630	18000	20000

Package: Pin Type (Pin:13mm)	Package: Wire Type (Wire:40mm)	Part Number	Emitting Color	Lens Type	Forward Voltage VF(V) Typ.	Dominant Wavelength wd(nm) Min.	Dominant Wavelength wd(nm) Typ.	Dominant Wavelength wd(nm) Max.	Luminous Intensity (mcd) Min.	Luminous Intensity (mcd) Typ.
		5mm Single Color Standard Low Voltage LED								
		OSW4DK5111A-1V/W1V	Pure White	Water Clear	1.2	X=0.31 , Y=0.33			20000	22000
		OSW5DK5111A-1V/W1V	Cool White	Water Clear	1.2	X=0.27 , Y=0.28			22000	25000
		OSM5DK5111A-1V/W1V	Warm White	Water Clear	1.2	X=0.45 , Y=0.41			18000	20000
		OSB5SA5111A-1V/W1V	Blue	Water Clear	1.2	465	470	475	7000	8400
		OSG5DA5111A-1V/W1V	Pure Green	Water Clear	1.2	520	525	530	22000	25000
		OSY5PA5111A-1V/W1V	Yellow	Water Clear	1.2	585	590	595	20000	22000
		OSO5PA5111A-1V/W1V	Orange	Water Clear	1.2	600	605	610	22000	25000
OSXXXX5XXXA-1V	OSXXXX5XXXA-W1V	OSR5PA5111A-1V/W1V	Red	Water Clear	1.2	620	625	630	20000	22000
		5mm Single Color Flashing Low Voltage LED								
		OSW5DS5A31A-1V/W1V	Cool White	Water Clear	1.2	X=0.27 , Y=0.28			2180	3000
		OSM5DS5A31A-1V/W1V	Warm White	Water Clear	1.2	X=0.45 , Y=0.41			1800	2500
		OSB5SS5A31A-1V/W1V	Blue	Water Clear	1.2	465	470	475	1120	1560
		OSG5DS5A31A-1V/W1V	Pure Green	Water Clear	1.2	520	525	530	2180	3000
		OSY5MS5A31A-1V/W1V	Yellow	Water Clear	1.2	585	590	595	2180	2800
		OSO5MS5A31A-1V/W1V	Orange	Water Clear	1.2	600	605	610	2180	2800
		OSR5MS5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	2180	2800
		OSW5DR5A31A-1V/W1V	Cool White	Water Clear	1.2	X=0.27 , Y=0.28			2180	3000
		OSM5DR5A31A-1V/W1V	Warm White	Water Clear	1.2	X=0.45 , Y=0.41			1800	2500
		OSB5SR5A31A-1V/W1V	Blue	Water Clear	1.2	465	470	475	1120	1560
		OSG5DR5A31A-1V/W1V	Pure Green	Water Clear	1.2	520	525	530	2180	3000
		OSY5MR5A31A-1V/W1V	Yellow	Water Clear	1.2	585	590	595	2180	2800
		OSO5MR5A31A-1V/W1V	Orange	Water Clear	1.2	600	605	610	2180	2800
OSXXXX5XXXA-1V	OSXXXX5XXXA-W1V	OSR5MR5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	2180	2800
		5mm Bi-color Flashing Low Voltage LED								
		OSBWDS5A31A-1V/W1V	Cool White	Water Clear	1.2	X=0.27 , Y=0.28			1120	1560
			Blue		1.2	460	465	475	750	1120
		OSRPMS5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	1560	2180
			Pure Green		1.2	520	525	530	2180	3000
		OSRBMS5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	1560	2180
			Blue		1.2	465	475	475	750	1120
		OSBWDS5A32A-1V/W1V	Cool White	White Diffused	1.2	X=0.27 , Y=0.28			750	1120
			Blue		1.2	460	465	475	500	750
		OSRPMS5A32A-1V/W1V	Red	White Diffused	1.2	620	625	630	750	1120
			Pure Green		1.2	520	525	530	1120	1560
		OSRBMS5A32A-1V/W1V	Red	White Diffused	1.2	620	625	630	750	1120
OSXXXX5XXXA-1V	OSXXXX5XXXA-W1V		Blue		1.2	465	470	475	500	750
		5mm RGB Color Flashing Low Voltage LED								
		OST1MC5A32A-1V/W1V	Red	White Diffused	1.2	620	625	630	750	1120
			Pure Green		1.2	520	525	530	1120	1560
			Blue		1.2	465	470	475	500	750
		OST1MA5A32A-1V/W1V	Red	White Diffused	1.2	620	625	630	750	1120
			Pure Green		1.2	520	525	530	1120	1560
			Blue		1.2	465	470	475	500	750
		OST1MC5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	1560	2180
			Pure Green		1.2	520	525	530	2180	3000
			Blue		1.2	465	470	475	750	1120
		OST1MA5A31A-1V/W1V	Red	Water Clear	1.2	620	625	630	1560	2180
			Pure Green		1.2	520	525	530	2180	3000
OSXXXX5XXXA-1V	OSXXXX5XXXA-W1V		Blue		1.2	465	470	475	750	1120

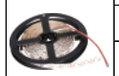
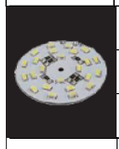
Directivity 2θ1/2 (degree)	IF (mA)	Reverse Current I_R Max.(uA)	V_R (V)	Absolute Maximum Rating (Ta=25℃) I_F (mA)	I_{FP} (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	Hand Soldering
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	
15	18.5	-	-	19	-	-	342	-30~+85	-30~+85	

Directivity 2θ1/2 (degree)	IF (mA)	Blinking Cycle	Duty Cycle	Absolute Maximum Rating (Ta=25℃) Vdd (V)	I_{FP} *1 (mA)	V_R (V)	P_D (mW)	T_{opr} (℃)	T_{stg} (℃)	Mounting
15	64±10	-	-	1.5	114	-	171	-30~+85	-30~+85	Hand Soldering
15	64±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	64±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	64±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	64±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	76±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	76±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
15	76±10	-	-	1.5	114	-	171	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	Hand Soldering
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	2.4HZ	1/12	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	Hand Soldering
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20+5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	1.8HZ	1/2	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	12S	-	1.5	-	-	-	-30~+85	-30~+85	Hand Soldering
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	33S	-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	12S	-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5	33S	-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	
30	20±5		-	1.5	-	-	-	-30~+85	-30~+85	

Screw LED

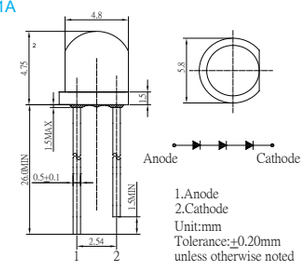
Package	Part Number	Emitting Color		Control Vohage VF(V)	Dominant Wavelength wd(nm)			Luminous Intensity (mcd)	Directivity 2θ1/2 (degree)	IF (mA)	T_{opr} (℃)	T_{stg} (℃)	Mounting
				Typ.	Min.	Typ.	Max.						
	E10 AC/DC Screw LED												
	SAP24-WWD28B31F		White	AC/DC24V	8000-17000K			20000	30	20	-30～+85	-40～+100	Hand Soldering
	SAP24-MMD28B31F		Warm White	AC/DC24V	2500-3500K			10000	30	20	-30～+85	-40～+100	
	SAP24-BBS28B31F		Blue	AC/DC24V	465	470	475	7000	30	20	-30～+85	-40～+100	
	SAP24-GGG28B31F		Pure Green	AC/DC24V	520	525	530	20000	30	20	-30～+85	-40～+100	
	SAP24-YYM28B31B		Yellow	AC/DC24V	585	590	595	10000	30	20	-30～+85	-40～+100	
	SAP24-RRM28B31B		Red	AC/DC24V	620	625	630	10000	30	20	-30～+85	-40～+100	
	E10 DC Screw LED												
	OPDK-W5DK8B31F		White	DC12V	8000-17000K			25000	30	20	-30～+85	-40～+100	Hand Soldering
	OPDK-M5DK8B31F		Warm White	DC12V	2500-3500K			14400	30	20	-30～+85	-40～+100	
	OPDK-B5SA8B31F		Blue	DC12V	465	470	475	8000	30	20	-30～+85	-40～+100	
	OPDK-G5DA8B31F		Pure Green	DC12V	520	525	530	25000	30	20	-30～+85	-40～+100	
	OPDK-5YPM8B31F		Yellow	DC12V	585	590	595	15000	30	20	-30～+85	-40～+100	
	OPDK-5RPM8B31F		Red	DC12V	620	625	630	15000	30	20	-30～+85	-40～+100	
	E10 Current Regulative Screw LED												
	OPDD-W5DK8B31B-CRLED18		White	DC5.5~20V	8000-17000K			12000	30	16	-30～+85	-40～+100	Hand Soldering
	OPDD-M5DK8B31B-CRLED18		Warm White	DC5.5~20V	2500-3500K			8000	30	16	-30～+85	-40～+100	
	OPDD-B5SA8B31B-CRLED18		Blue	DC5.5~20V	465	470	475	6500	30	16	-30～+85	-40～+100	
	OPDD-G5DA8B31B-CRLED18		Pure Green	DC5.5~20V	520	525	530	12000	30	16	-30～+85	-40～+100	
	OPDD-Y5MA8B31B-CRLED18		Yellow	DC5.5~20V	585	590	595	7500	30	16	-30～+85	-40～+100	
	OPDD-R5MA8B31B-CRLED18		Red	DC5.5~20V	620	625	630	7500	30	16	-30～+85	-40～+100	

LED Strip

Package	Part Number	Emitting Color		Forward Voltage VF (V)	Dominant Wavelength wd(nm)		
				Typ.	Min.	Typ.	Max.
	LED Light Strip 60 x SMD3528 /Meter						
	OSW0W536	●	Cool White	DC12V	8500-10000-20000K		
	OSW0M536	●	Warm White	DC12V	2500~3000~3500K		
	OSW0B536	●	Blue	DC12V	465	470	475
	OSW0G536	●	Pure Green	DC12V	520	525	530
	OSW0Y536	●	Yellow	DC12V	585	590	595
	OSW0R536	●	Red	DC12V	620	625	630
	LED Light Strip 60 x SMD5050 /Meter						
	OSW0W556	●	Pure White	DC12V	5500~6500~8500K		
	OSW0M556	●	Warm White	DC12V	2700~3000~3200K		
	OSW0B556	●	Blue	DC12V	465	470	475
	OSW0G556	●	Pure Green	DC12V	520	525	530
	OSW0Y556	●	Yellow	DC12V	585	590	595
	OSW0R556	●	Red	DC12V	620	625	630
		●	Red		620	625	630
	OSW0TC56	●	Green	DC12V	520	525	530
		●	Blue		465	470	475
	Ultra Thin Circular LED Module						
	OERS24W414	●	White	12V	5500K~6500K		
	OERS16W414	●	White	12V	5500K~6500K		
	OERS08W414	●	White	12V	5500K~6500K		
	Ultra Thin Cuttable Rigid LED Bar						
	OERBW0W428	●	White	12V	5500K~6500K~8500K		
	OERBW0M528	●	Warm White	12V	3000K~3500K~4000K		
	OERBW0W414	●	White	12V	5500K~6500K~8500K		
	OERBW0M514	●	Warm White	12V	3000K~3500K~4000K		
	Bendable RGB LED Flashing Mini String						
	OSMST1100FD	●	Red	12V	620	625	630
		●	Green		520	525	530
		●	Blue		465	470	475
	OSMST120EB	●	Red	4.5V	620	625	630
		●	Green		520	525	530
		●	Blue		465	470	475

Luminous Intensity (mcd)	Directivity 2θ1/2 (degree)	IF (mA)	T_{opr} (℃)	T_{stg} (℃)	Mounting
Typ.					
1700	120	400	-30～+85	-40～+100	Hand Soldering
1400	120	400	-30～+85	-40～+100	
305	120	400	-30～+85	-40～+100	
600	120	400	-30～+85	-40～+100	
375	120	400	-30～+85	-40～+100	
400	120	400	-30～+85	-40～+100	
12-14lm	120	1200	-30～+85	-40～+100	Hand Soldering
11-13lm	120	1200	-30～+85	-40～+100	
755	120	1200	-30～+85	-40～+100	
1500	120	1200	-30～+85	-40～+100	
875	120	1200	-30～+85	-40～+100	
900	120	1200	-30～+85	-40～+100	
180	120	1200	-30～+85	-40～+100	
900	120	1200	-30～+85	-40～+100	
200	120	1200	-30～+85	-40～+100	
288lm	120	125	-30～+85	-40～+100	Hand Soldering
192lm	120	84	-30～+85	-40～+100	
96lm	120	42	-30～+85	-40～+100	
19-21lm	120	1200	-30～+85	-40～+100	Hand Soldering
19-22lm	120	1200	-30～+85	-40～+100	
8-9lm	120	1000	-30～+85	-40～+100	
9-10lm	120	1000	-30～+85	-40～+100	
100	120	370	-30～+85	-40～+100	Hand Soldering
360	120	370	-30～+85	-40～+100	
90	120	370	-30～+85	-40～+100	
100	120	130	-30～+85	-40～+100	
360	120	130	-30～+85	-40～+100	
90	120	130	-30～+85	-40～+100	

OSXXX356F1A



1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

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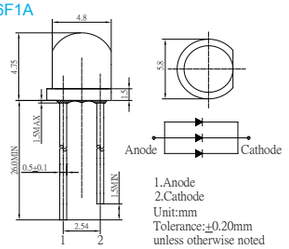

1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

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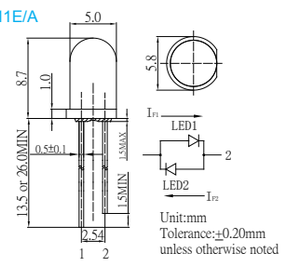

Unit:mm
Tolerance:±0.20mm
unless otherwise noted

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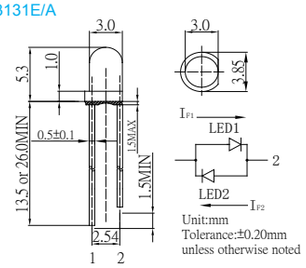

Unit:mm
Tolerance:±0.20mm
unless otherwise noted

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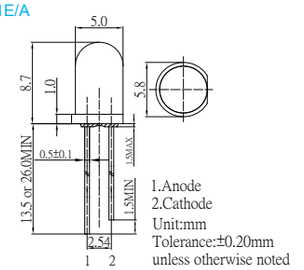
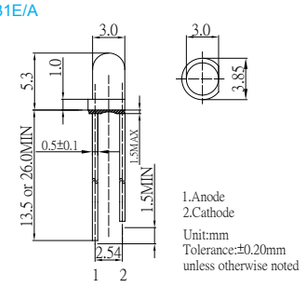


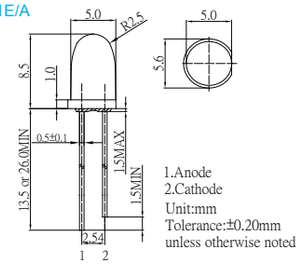
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX3131E/A



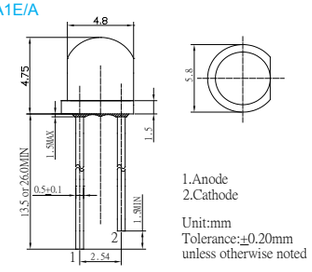
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5201E/A



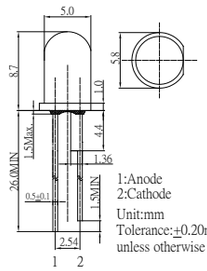
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX56A1E/A



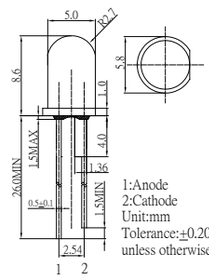
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSX5XX5111P



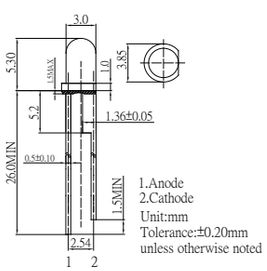
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5C31P



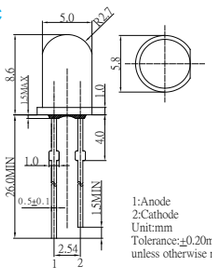
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX3131P



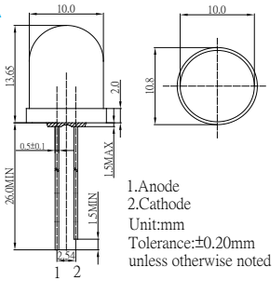
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5C31C



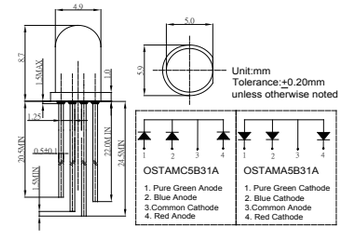
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXXA131A



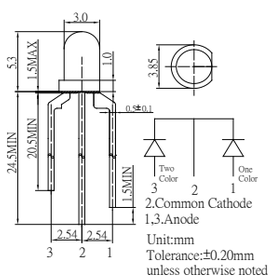
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSTAMX5B31A



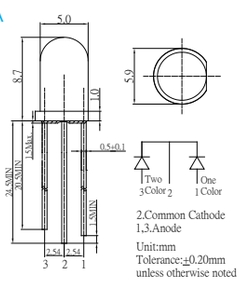
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXC3131A



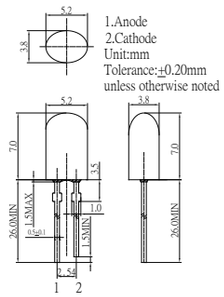
2.Common Cathode
1,3.Anode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXC5B31A



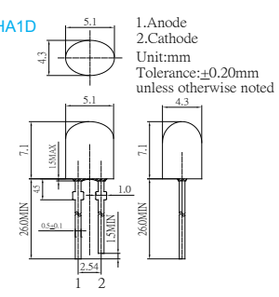
2.Common Cathode
1,3.Anode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5JB4D



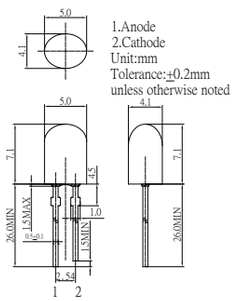
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5HA1D



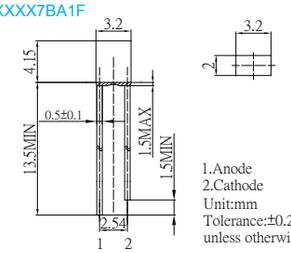
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5471D



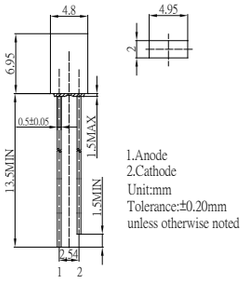
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.2mm
unless otherwise noted

OSXXXX7BA1F



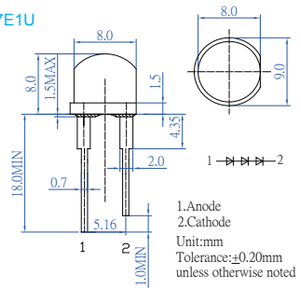
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX71A1F



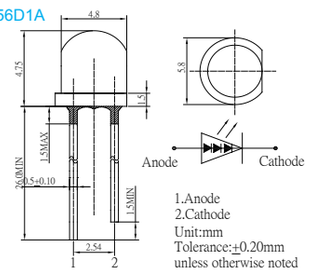
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXX387E1U



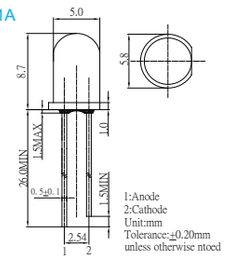
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXPL56D1A



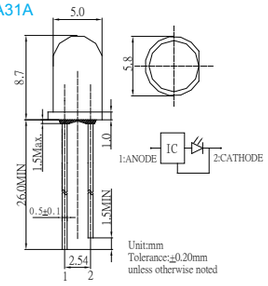
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OST1(MA/MC)5A31A



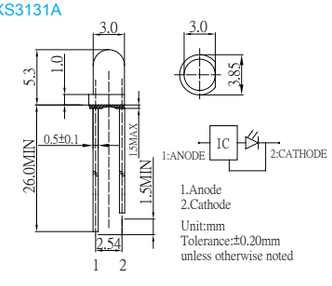
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise ntoed

OSXXXS5A31A



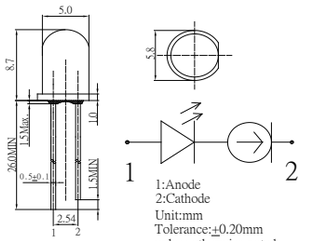
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXS3131A



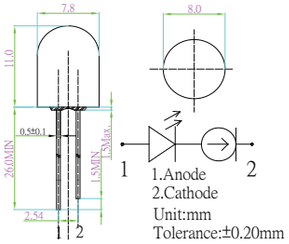
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5A31A-CRLED18



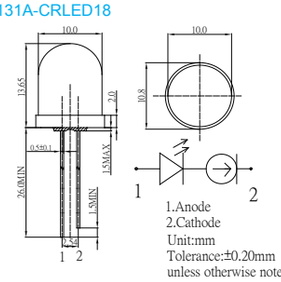
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX8B31B-CRLED18



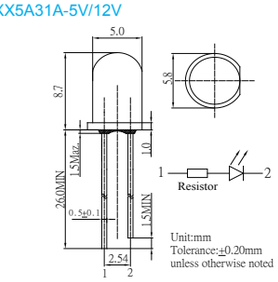
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXXA131A-CRLED18



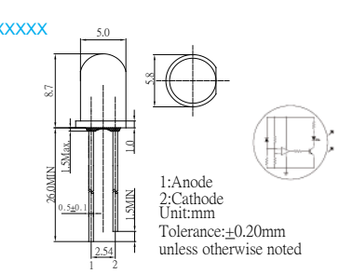
1.Anode
2.Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXX5A31A-5V/12V



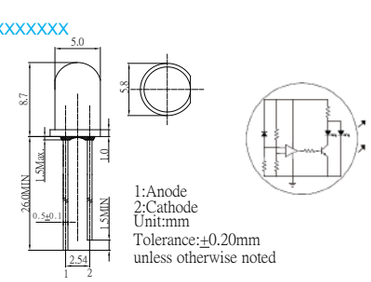
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSD1XXXXXXX



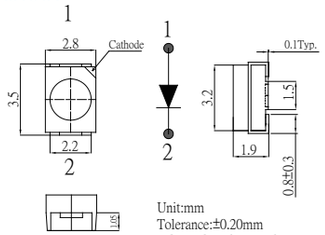
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSD2XXXXXXX



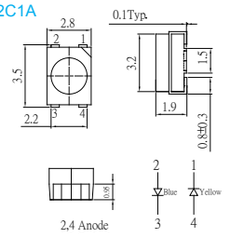
1:Anode
2:Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXXS1C1A



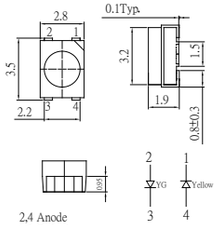
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSYBS4S2C1A



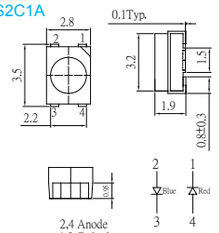
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm unless otherwise noted

OSYGH4S2C1A



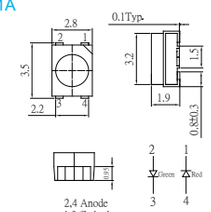
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm unless otherwise noted

OSRBS4S2C1A



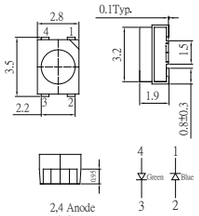
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise notred

OSRPS4S2C1A



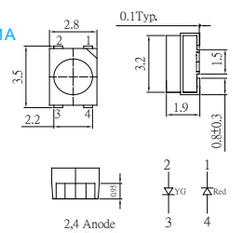
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSBPS4S2C1A



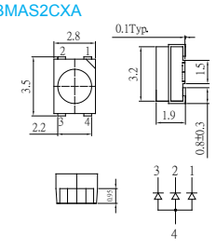
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSRGH4S2C1A



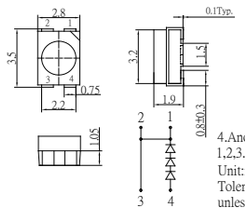
2,4 Anode
1,3 Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSTBMAS2CXA



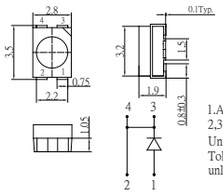
4.Common Anode
1.Red
2.Pure Green
3.Blue
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXX3S3C1A



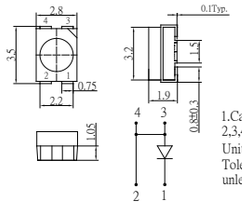
4.Anode
1,2,3. Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSW5/M5/K5/B5/G3/G5)XXS3C1A



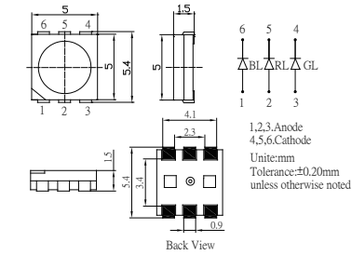
1.Anode
2,3,4. Cathode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OS(R5/Y5)CAS3C1A



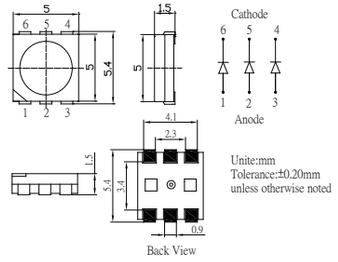
1.Cathode
2,3,4. Anode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

OSTCMBS4C1A



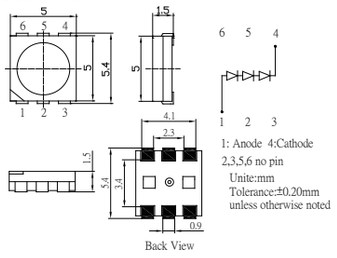
1,2,3.Anode
4,5,6.Cathode
Unite:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXXTS4C1A



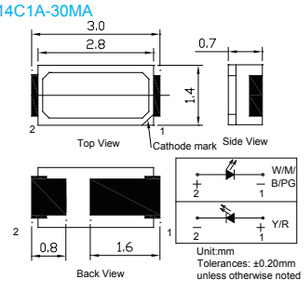
Unite:mm
Tolerance:±0.20mm
unless otherwise noted

OSXXX3S4C1A



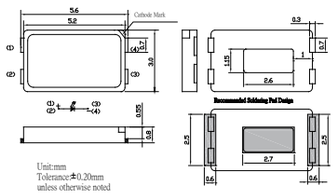
1: Anode 4:Cathode
2,3,5,6 no pin
Unite:mm
Tolerance:±0.20mm
unless otherwise noted

OSXX3014C1A-30MA



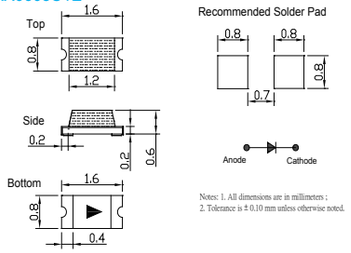
Unit:mm
Tolerances: ±0.20mm
unless otherwise noted

OSXX5630C1D

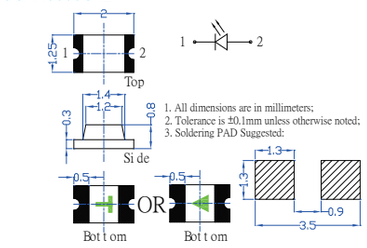


Unit:mm
Tolerance:±0.20mm
unless otherwise noted

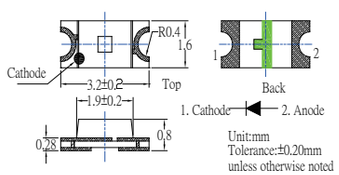
OSXX0603C1E



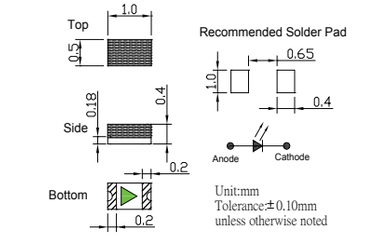
OSXX0805C1E



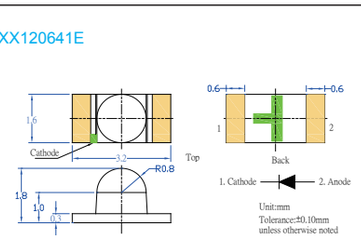
OSXX1206C1E



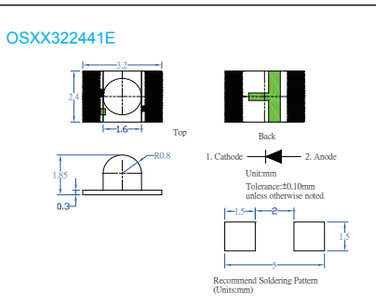
OSXX0402C1C



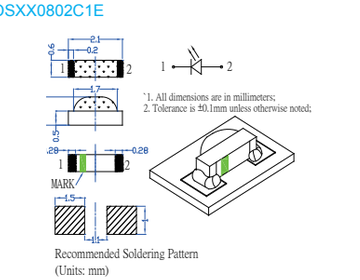
OSXX120641E



OSXX322441E



OSXX0802C1E



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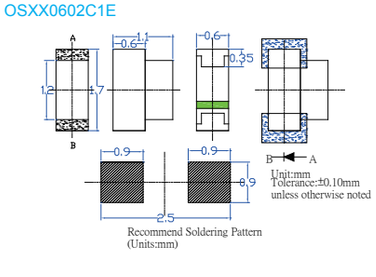

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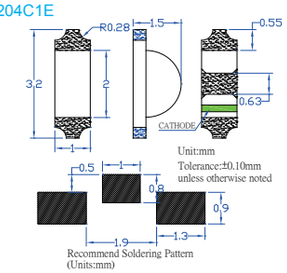

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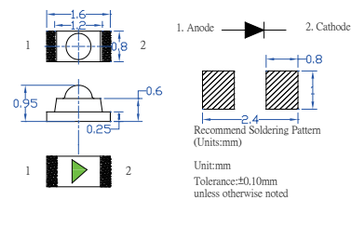

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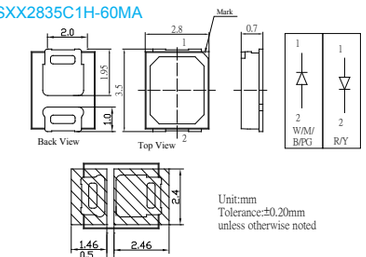

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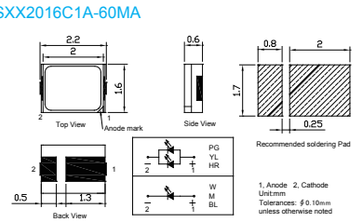

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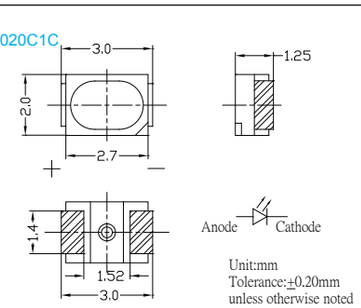

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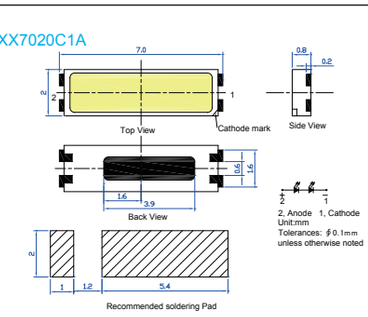

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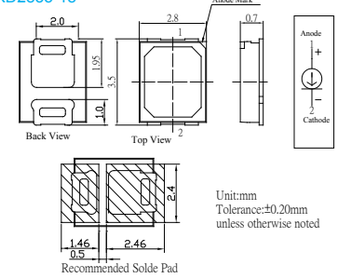

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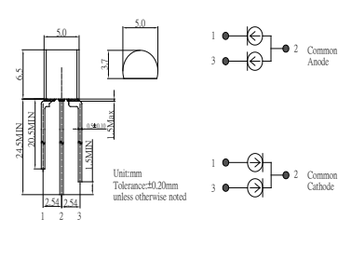

Outline Dimensions

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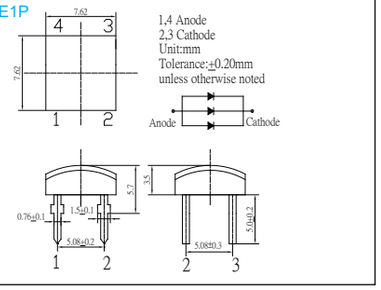

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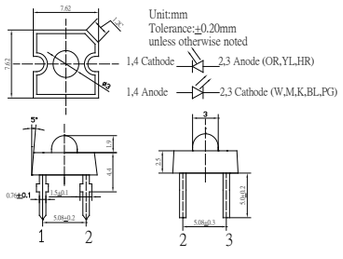

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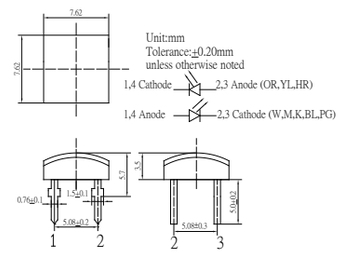

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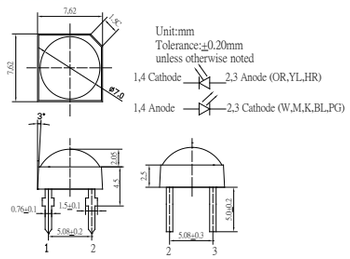

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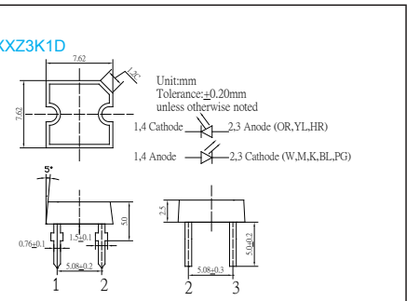

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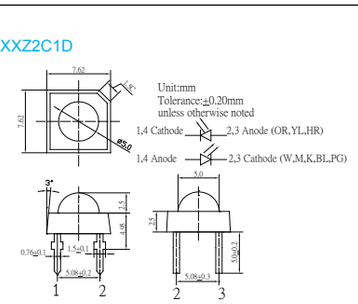

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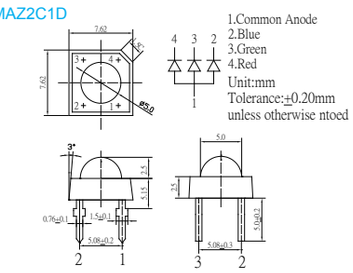

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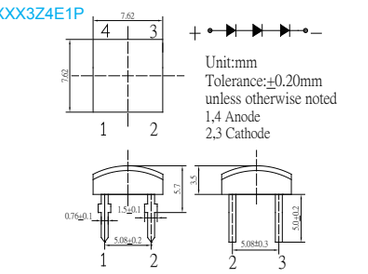

Outline Dimensions

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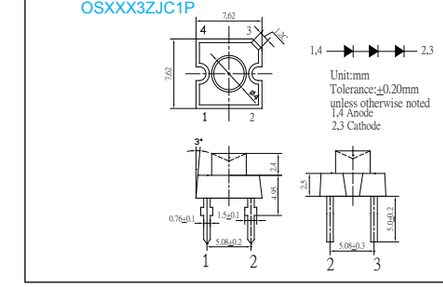

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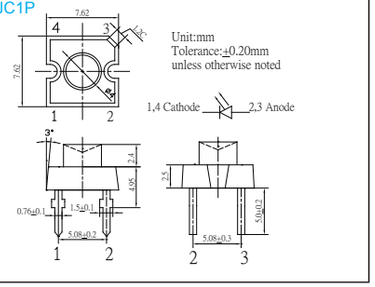

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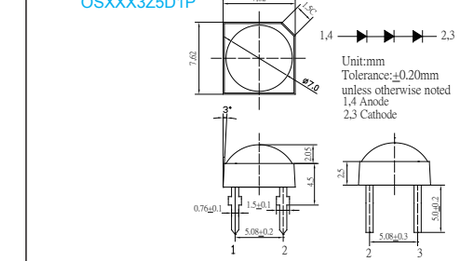

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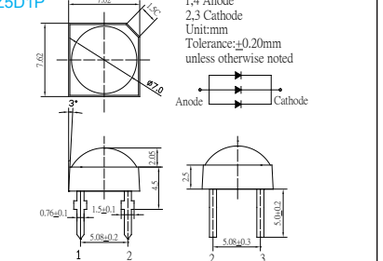

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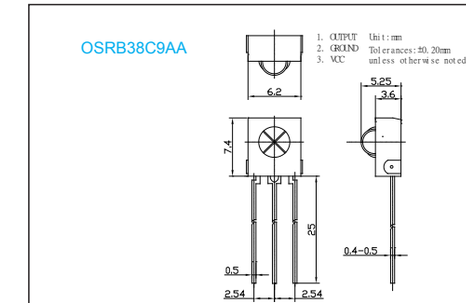

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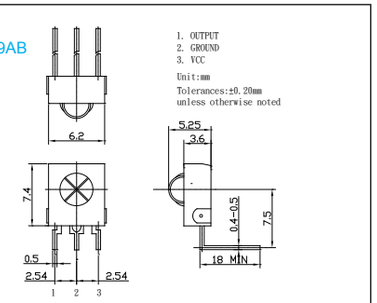

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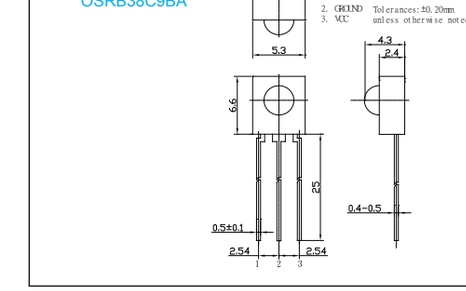

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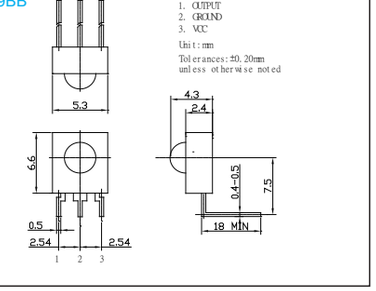

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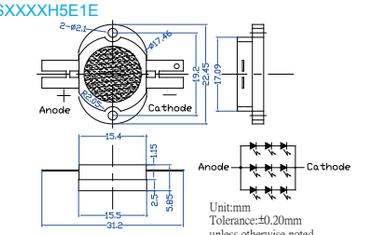

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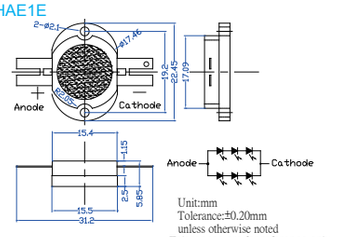

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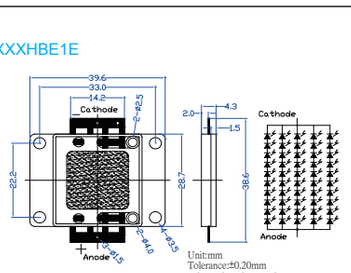

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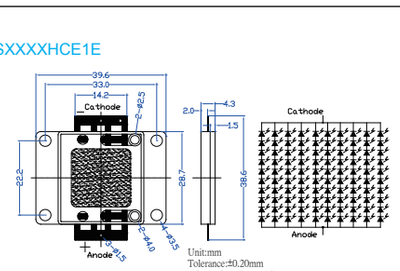

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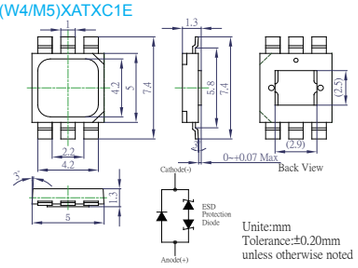

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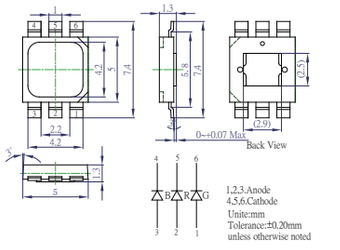

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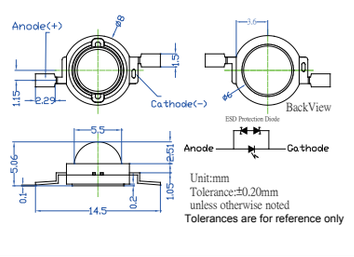

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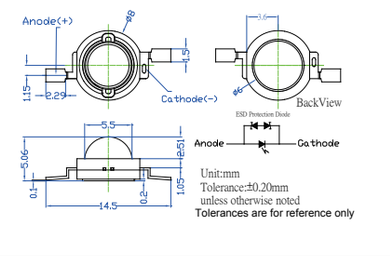

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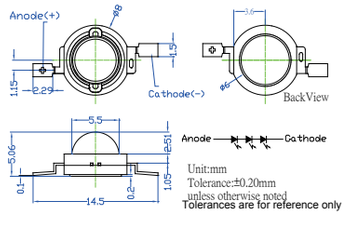

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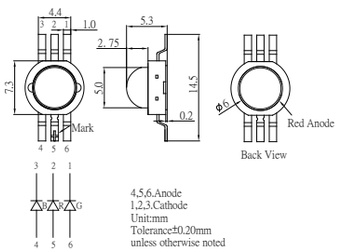

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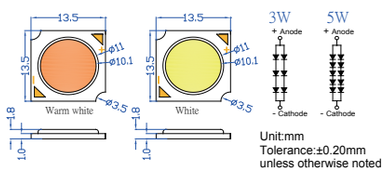

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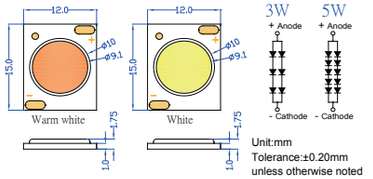

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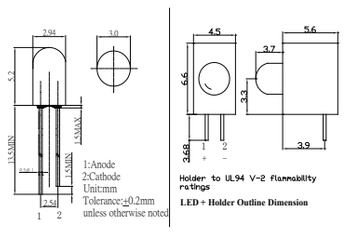

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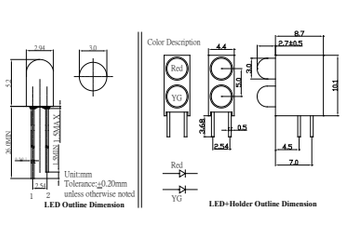

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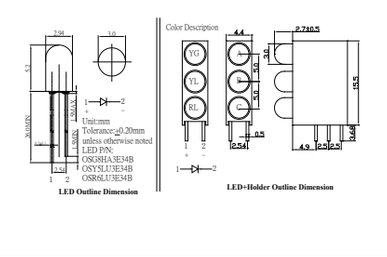

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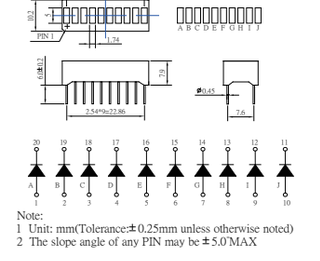

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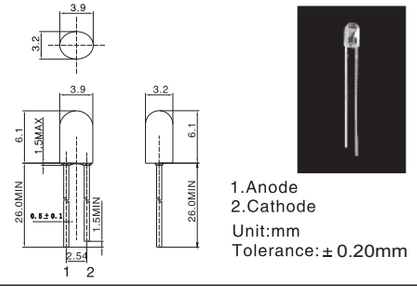

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2.Cathode
Unit:mm
Tolerance: ± 0.20mm

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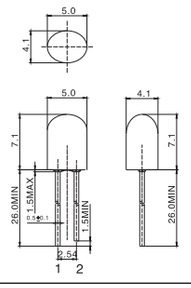

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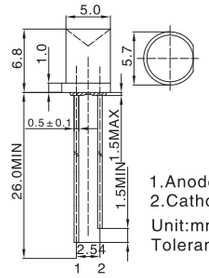

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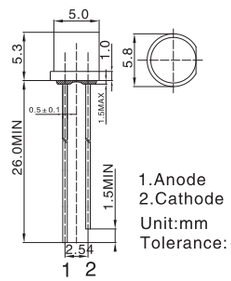

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2.Cathode
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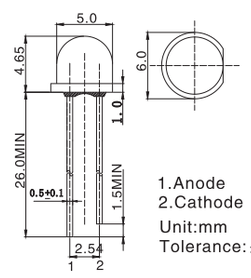

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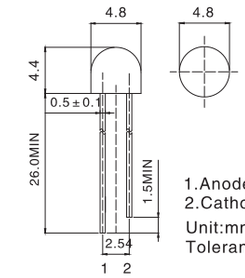

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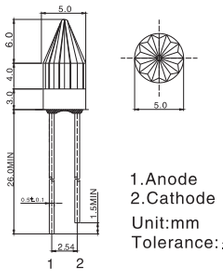

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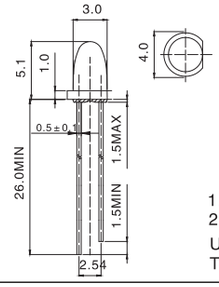

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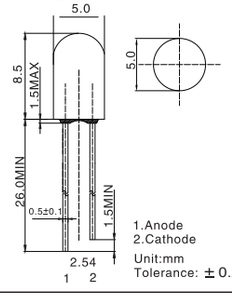

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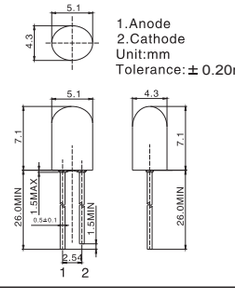

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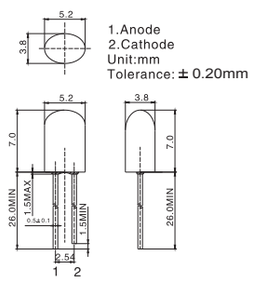

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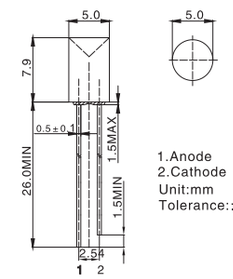

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2.Cathode
Unit:mm
Tolerance: ± 0.20mm

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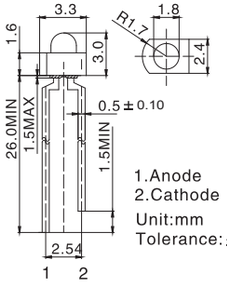

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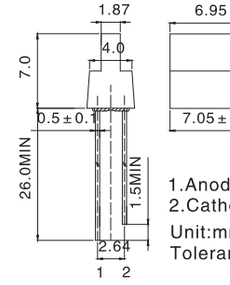
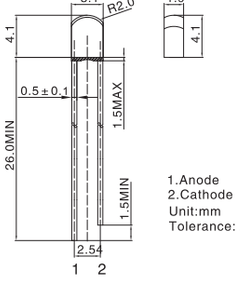


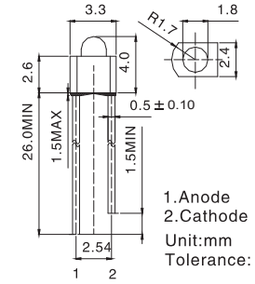
1.Anode
2.Cathode
Unit:mm
Tolerance: ± 0.20mm

OSXXXX74E1B



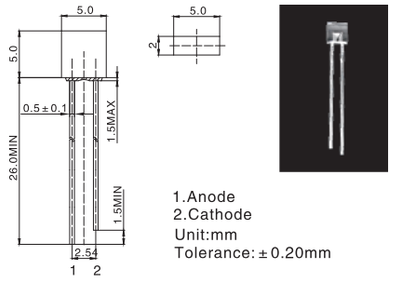
1.Anode
2.Cathode
Unit:mm
Tolerance: ± 0.20mm

OSXXXX7521B



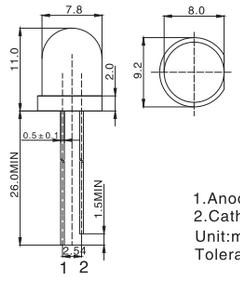
1.Anode
2.Cathode
Unit:mm
Tolerance: ± 0.20mm

OSXXXX7DA1B



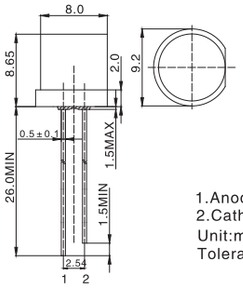
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX8131A



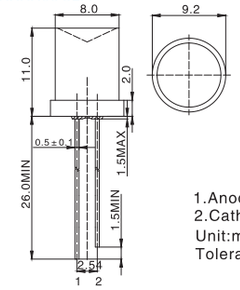
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX82E1A



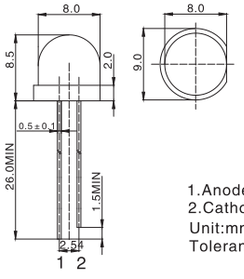
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX83C1A



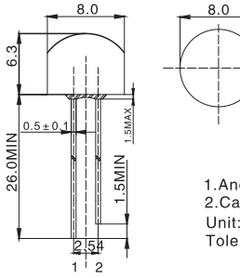
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX8461A



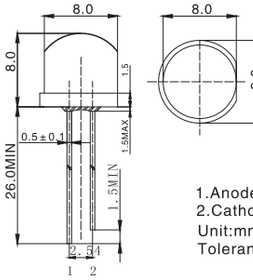
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX86A1B



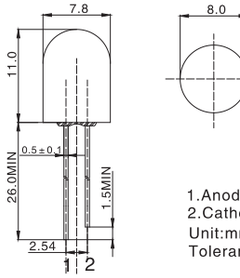
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX87A1A



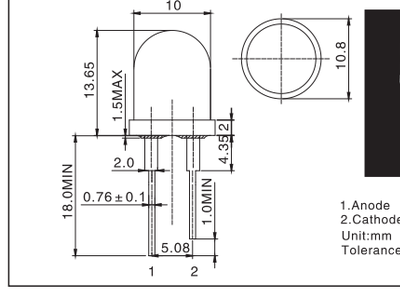
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXX8B31B



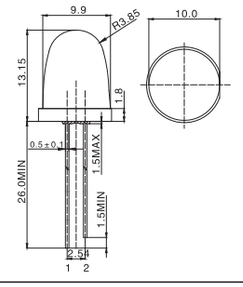
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXA131U



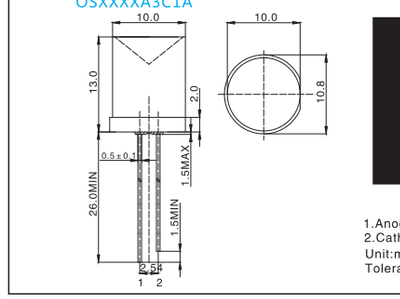
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXA201A



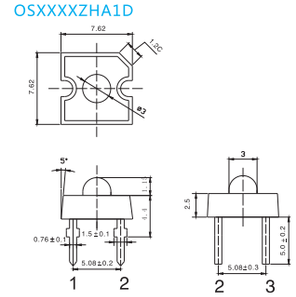
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXA3C1A



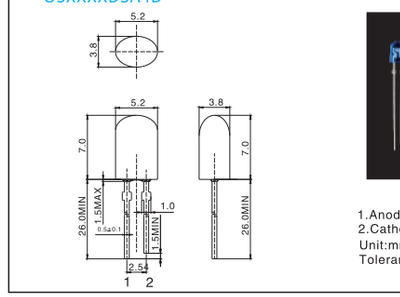
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXZHA1D



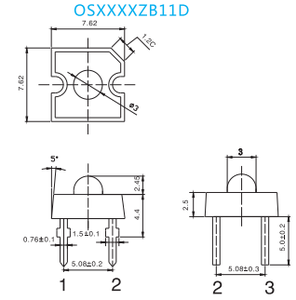
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXDSA4D



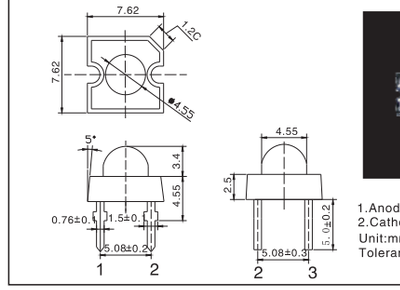
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXZB11D



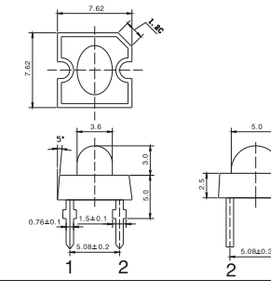
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

OSXXXXZE31D



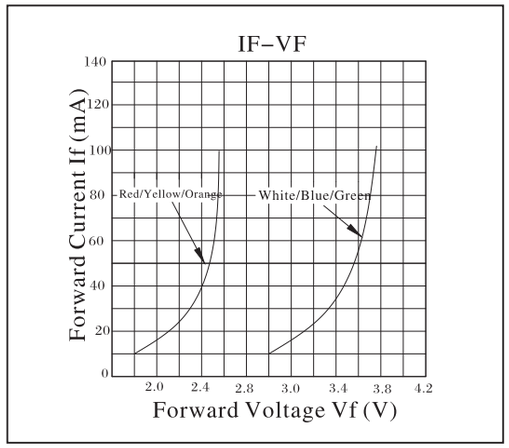
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

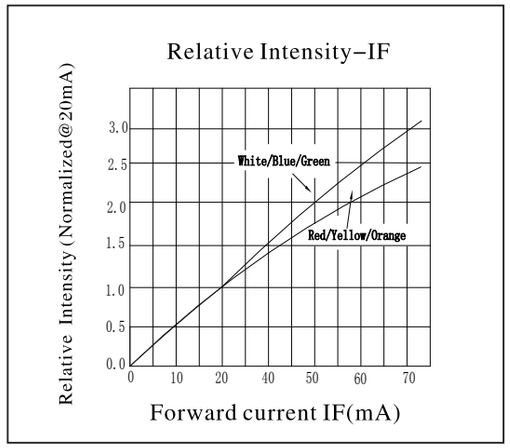
OSXXXXZG71D

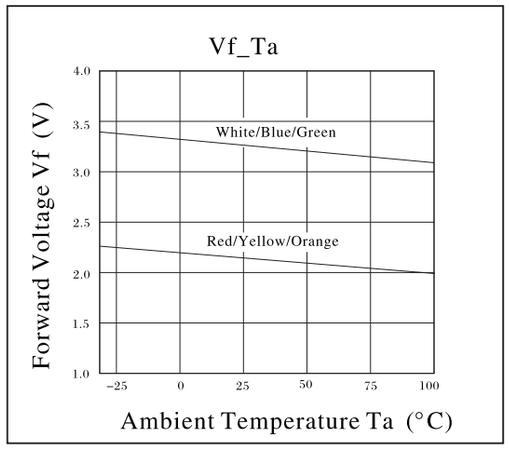


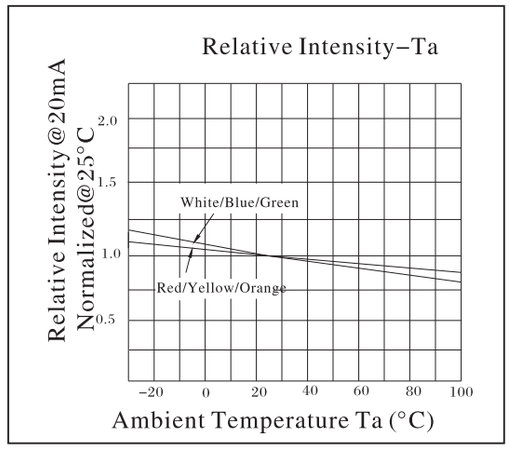
1.Anode
2.Cathode
Unit:mm
Tolerance: ±0.20mm

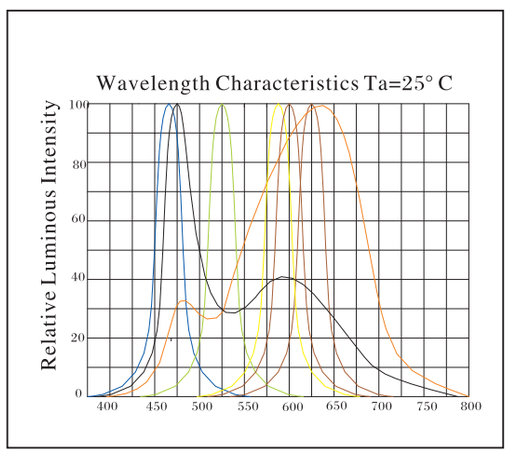
Typical Characteristics

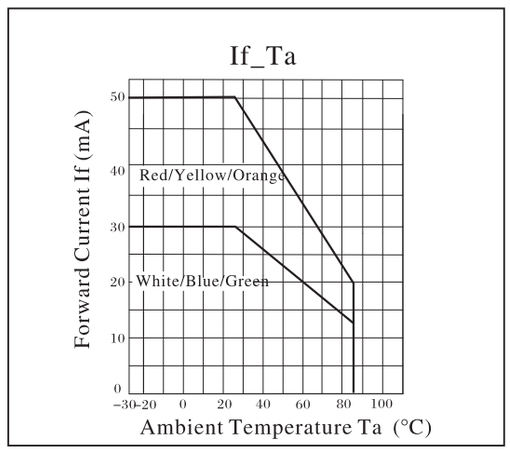










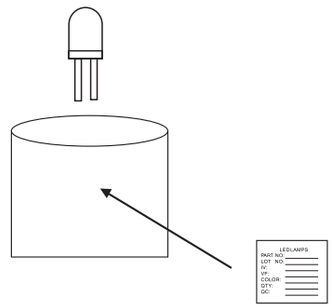


Lamp Type Packing

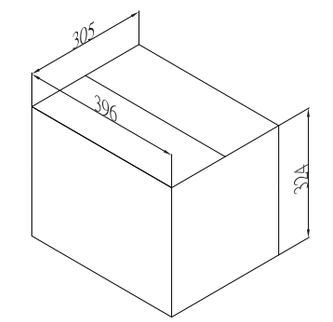
● Packing

*Bulk Packing

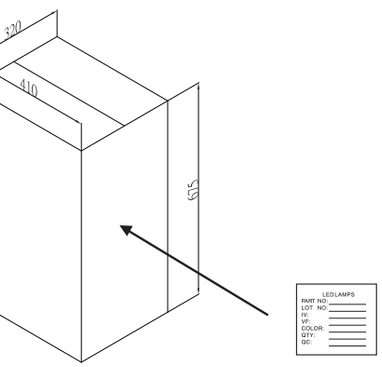
Unit: mm



Unit: mm



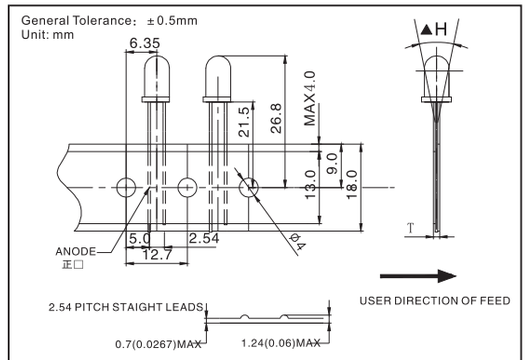
Unit: mm



Remark:1,5mm,ESD Bag(500 pcs/Bag)
2,5mm, Box(40 Bags/Box)
3,2 Boxes/Carton

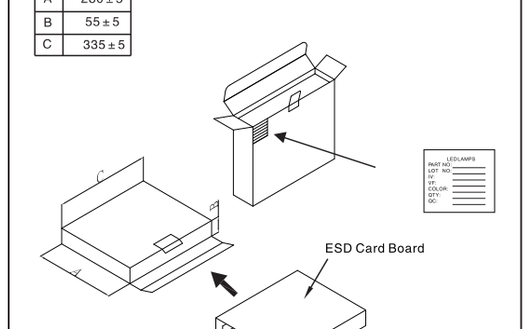
* Taping Box

General Tolerance: ±0.5mm
Unit: mm

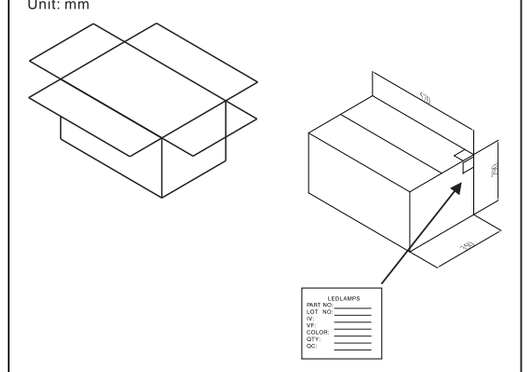


Unit: mm

A	280±5
B	55±5
C	335±5



Unit: mm



Remark:1. 3mm,Box(3000 pcs/box)
2. 5mm, Box(2000 pcs/box)
3. 10 Boxes/carton

Handling Precautions

■ Lead Forming

- When forming leads, the leads should be bent at a point at least 3mm from the base of the epoxy bulb.Do not use the base of the leadframe as a fulcrum during lead forming.
- Lead forming should be done before soldering.
- Do not apply any bending stress to the base of the lead. The stress to the base may damage the LEDs. characteristics or it may break the LEDs.
- When mounting the LEDs onto a printed circuit board, the holes on the circuit board should be exactly aligned with the leads of the LEDs. If the LEDs are mounted with stress at the leads, it causes deterioration of the epoxy resin and this will degrade the LEDs.

■ Storage

- The LEDs should be stared at 30℃ or less and 70%RH or less after being shipped from Optosupply and the storage life limits are 3 months. If the LEDs are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
- Optosupply's LEDs leadframes are silver plated Fe or Copper alloy. The silver surface may be affected by environments which contain corrosive substances. Please avoid conditions which may cause LEDs to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the LEDs be used as soon as possible.
- Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

■ Static Electricity

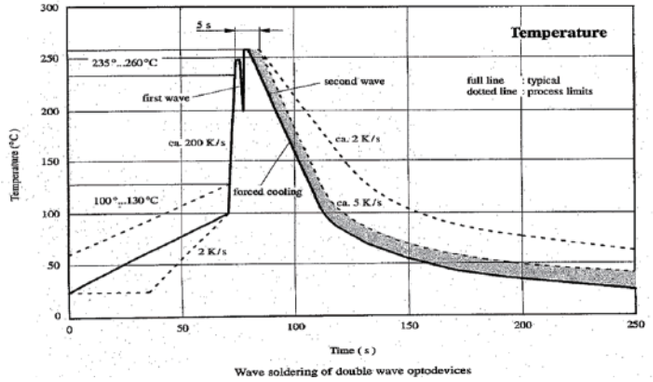
- Static electricity or surge voltage damages the LEDs
  It is recommended that a wrist band or an anti-electrostatic glove be used when handling the Through Hole LEDs.
- All devices, equipment and machinery must be properly grounded. It is recommended that precautions be taken against surge voltage to the equipment that mounts the LEDs
- When inspecting the final products in which LEDs were assembled, it is recommended to check whether the assembled LEDs are damaged by static electricity or not. It is easy to find static-damaged LEDs by a light-on test or a VF test at a lower current (below 1mA is recommended).
- Damaged the LEDs will show some unusual characteristics such as the leak current remarkably increases, the forward voltage becomes lower, or the LEDs do not light at the low current.
  Criteria: (VF >2.0V at IF=0.5mA)

● Soldering Conditions

■ Recommended Soldering Conditions

Wave Sodering		Hand Soldering	
Pre-Heat	120℃ Max.	Temperature	350℃ Max.
Pre-Heat Time	60 seconds Max.	Soldering Time	3 seconds Max.
Solder Bath Temperature	260℃ Max.	Position	No closer than 3 mm from the base of the epoxy bulb.
Dipping Time	5 seconds Max.		
Dipping Position	No lower than 3mm from the base of the epoxy bulb.		

*Solder the LED No Closer than 3mm from the base of the epoxy bulb. Soldering beyond the base of the tie bar is recommended.



Wave soldering of double wave optodevices

- All Lamp Type LED products are pb-free soldering available.
- Optosupply's LEDs leadframes are silver plated Fe or Copper alloy.
  Careful attention should be paid during soldering.
- Although the recommended soldering conditions are specified in the above table, dip or hand soldering at the lowest possible temperature is desirable for the LEDs.
- A rapid-rate process is not recommended for cooling the LEDs .own from the peak temperature.
- Dip soldering should not be done more than one time.
- Hand soldering should not be done more than one time.
- Do not apply any stress to the lead particularly when heated.
- The LEDs must not be repositioned after soldering.
- After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.
- Direct soldering onto a PC board should be avoided. Mechanical stress to the resin may be caused from

warpingof the PC board or from the clinching and cutting of the leadframes. When it is absolutely necessary, the LEDs may be mounted in this fashion but the User will assume responsibility for any problems. Direct soldering should only be done after testing has confirmed that no damage, such as wire bond failure or resin deterioration, will occur. resin deterioration, will occur. Optosupply's LEDs should not be soldered directly to double sided PC boards because the heat will deteriorate the epoxy resin.

• When it is necessary to clamp the LEDs to prevent soldering failure, it is important to minimize the mechanical stress on the LEDs.

• Cut the LEDs leadframes at room temperature. Cutting the leadframes at high temperatures may cause failure of the LEDs.

■Heat Generation

• Thermal design of the end product is of paramount importance. Please consider the heat generation of the LEDs when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of LEDs placement on the board, as well as other components. It is necessary to avoid intense heat generation and operating current should be decided after considering the ambient maximum temperature of LEDs.

■Cleaning

• It is recommended that isopropyl alcohol be used as a solvent for cleaning LEDs. When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the resin or not. Freon solvents should not be used to clean the LEDs because of worldwide regulations.

• Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such as ultrasonic power and the assembled condition. Before cleaning, a pre-test should be done to confirm whether any damage to LEDs will occur.

■Others

• The LED complies with RoHS and REACH Directive.

• The LED light output is strong enough to injure human eyes.Precautions must be taken to prevent looking directly at the LEDs with unaided eyes for more than a few seconds.

• Flashing lights have been known to cause discomfort in people; you can prevent this by taking precautions during use.Also, people should be cautious when using equipment that has had LEDs incorporated into it.

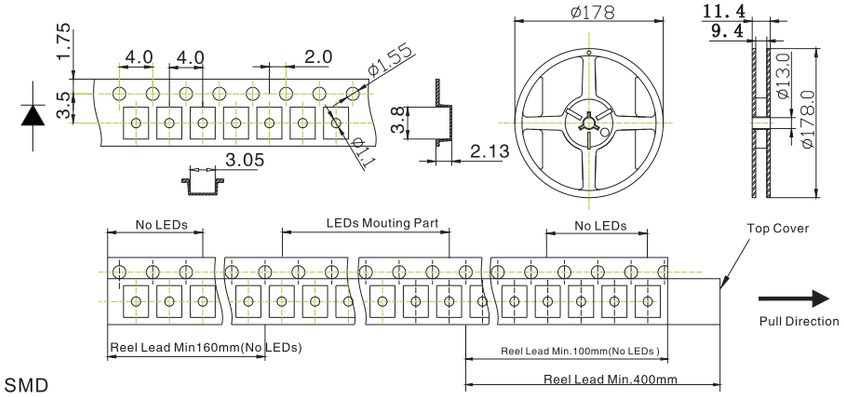
• The LEDs described in this brochure are intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult Optosupply's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).

• User shall not reverse engineer by disassembling or analysis of the LEDs without having prior written consent from Optosupply. Optosupply directly before disassembling or analysis.

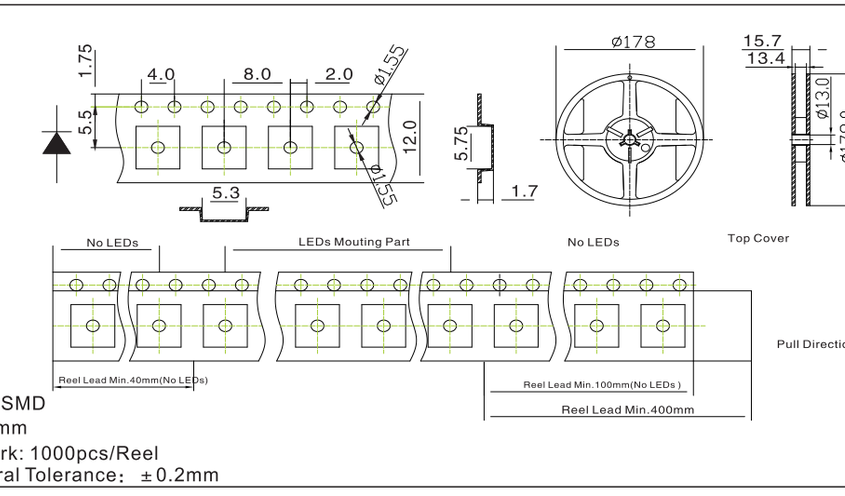
• The formal specifications must be exchanged and signed by both parties before large volume purchase begins.

• The appearance and specifications of the product may be modified for improvement without notice.

● Surface Mount Type Packing



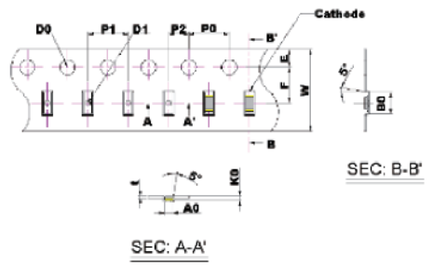
3528 SMD
Unit: mm
Remark: 2000pcs/Reel
General Tolerance： ±0.1mm



5050 SMD
Unit: mm
Remark: 1000pcs/Reel
General Tolerance： ±0.2mm

Item	Spec	Tol.(+/-)	Item	Spec	Tol.(+/-)
W	8.00	±0.20	P2	2.00	±0.05
E	1.75	±0.10	t	0.20	±0.05
F	3.50	±0.05	A0	0.95	±0.05
D0	1.50	+0.10/-0	B0	1.85	±0.05
D1	0.50	±0.08	K0	0.50	±0.05
P0	4.00	±0.1			
P1	4.00	±0.1			

Unit: mm



0603 SMD
Remark: 4000pcs/Reel Diameter: 178 mm
General Tolerance : ± 0.1mm

Handling Precautions

■Moisture Proof Package

• When moisture is absorbed into the SMT package it may vaporize and expand during soldering. There is a possibility that this can cause exfoliation of the contacts and damage to the optical characteristics of the LEDs. For this reason, the moisture proof package is used to keep moisture to a minimum in the package.

• The moisture proof package is made of an aluminum moisture proof bag. A package of a moisture absorbent material (silica gel) is inserted into the aluminum moisture proof bag. The silica gel changes its color from blue to pink as it absorbs moisture.

■ Storage

• Storage Conditions

Before opening the package :

The LEDs should be kept at 30°C or less and 60%RH or less. The LEDs should be used within a year.When storing the LEDs, moisture proof packaging with absorbent material (silica gel) is recommended.

• After opening the package :

Soldering should be done right after opening the package(within 24hrs).

Keeping of a fraction, sealing and Temperature :5~30℃ Humidity :Less than 30%.If the package has been opened more than 24 Hours , components should be dried for 12hrs,at 60±5℃ .

• Optosupply LED electrode sections are comprised of a silver plated copper alloy.The silver surface may be affected by environments which contain corrosive gases and so on. Please avoid conditions whichmay cause the LED to corrode, tarnish or discolor. This corrosion or discoloration may cause difficulty during soldering operations. It is recommended that the User use the LEDs as soon as possible.

• Please avoid rapid transitions in ambient temperature, especially in high humidity environments where condensation can occur.

■Static Electricity

• Static electricity or surge voltage damages the LEDs.

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

• All devices, equipment and machinery must be properly grounded.

It is recommended that measures be taken against surge voltage to the equipment that mounts the LEDs.

■Static Electricity

• Static electricity or surge voltage damages the LEDs.

It is recommended that a wrist band or an anti-electrostatic glove be used when handling the LEDs.

tatic Electricity

• All devices, equipment and machinery must be properly grounded.

It is recommended that measures be taken against surge voltage to the equipment that mounts the LEDs.

Surface Mount Type Precautions In Use

●Soldering Conditions

■Recommended Soldering Conditions

Reflow Soldering		Hand Soldering	
Pre-Heat	180~ 200°C	Temperature Soldering time	350°C Max. 3 sec. Max. (one time only)
Pre-Heat Time	120 sec. Max.		
Peak temperature	260°C Max.		
Dipping Time	10sec. Max.		
Condition	Refer to Temperature-profile ①		

*Recommended soldering conditions vary according to the type of LED

*Although the recommended soldering conditions are specified in the above table, reflow,or hand soldering at the lowest possible temperature is desirable for the LEDs.

*A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.

• All SMD LED products are pb-free soldering acailable.

• Occasionally there is a brightness decrease caused by the influence of heat or ambient atmosphere during air reflow. It is recommended that the User use the nitrogen reflow method.

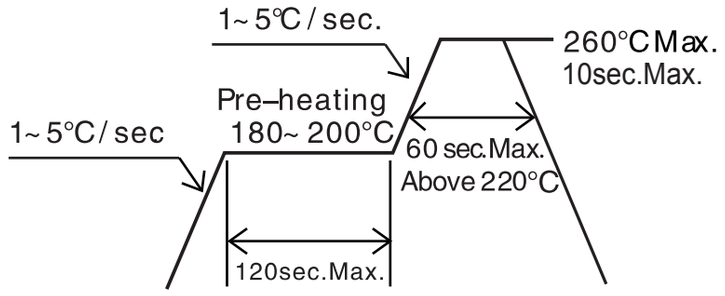
• Repairing should not be done after the LEDs have been soldered. When repairing is unavoidable,a double-head soldering iron should be used. It should be confirmed beforehand whether the characteristics of the LEDs will or will not be damaged by repairing.

• Reflow soldering should not be done more than two times.

• When soldering, do not put stress on the LEDs during heating.

• After soldering, do not warp the circuit board.

Temperature-Profile(Surface of Circuit Board)



Surface Mount Type Precautions In Use

■Heat Generation

• Thermal design of the end product is of paramount importance. Please consider the heat generation of the LEDs when making the system design. The coefficient of temperature increase per input electric power is affected by the thermal resistance of the circuit board and density of LEDs placement on the board, as well as other components. It is necessary to avoid intense heat generation and operating current should be decided after considering the ambient maximum temperature of LEDs.

■Cleaning

• It is recommended that isopropyl alcohol be used as a solvent for cleaning LEDs. When using other solvents, it should be confirmed beforehand whether the solvents will dissolve the resin or not. Freon solvents should not be used to clean the LEDs because of worldwide regulations.

• Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such as ultrasonic power and the assembled condition.
Before cleaning, a pre-test should be done to confirm whether any damage to LEDs will occur.

• it is recommended to use isopropyl alcohol as a solvent for cleaning on certain LEDs. For move information about proper cleaning methods of eache LED,please refer its respective specification sheet.

■Others

• The LED complies with RoHS and REACH Directive.

• The LED light output is strong enough to injure human eyes.Precautions must be taken to prevent looking directly at the LEDs with unaided eyes for more than a few seconds.

• Flashing lights have been known to cause discomfort in people; you can prevent this by taking precautions during use.Also, people should be cautious when using equipment that has had LEDs incorporated into it.

• The LEDs described in this brochure are intended to be used for ordinary electronic equipment (such as office equipment, communications equipment, measurement instruments and household appliances). Consult Optosupply's sales staff in advance for information on the applications in which exceptional quality and reliability are required, particularly when the failure or malfunction of the LEDs may directly jeopardize life or health (such as for airplanes, aerospace, submersible repeaters, nuclear reactor control systems, automobiles, traffic control equipment, life support systems and safety devices).

• User shall not reverse engineer by disassembling or analysis of the LEDs without having prior written consent from Optosupply. Optosupply directly before disassembling or analysis.

• The formal specifications must be exchanged and signed by both parties before large volume purchase begins.

• The appearance and specifications of the product may be modified for improvement without notice.

Power LED Precautions In Use

■ Handling of Silicone Lens LEDs

Notes for handling of silicone lens LEDs

● Please do not use a force of over 3kgf impact or pressure on the silicone lens, otherwise it will cause a catastrophic failure.

● The LEDs should only be picked up by making contact with the sides of the LED body.

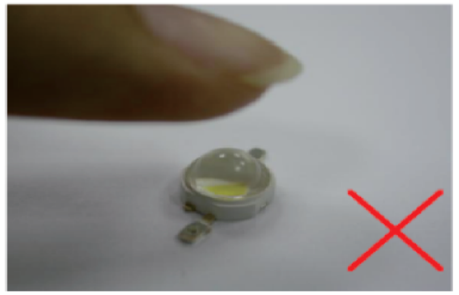
● Avoid touching the silicone lens especially by sharp tools such as Tweezers.

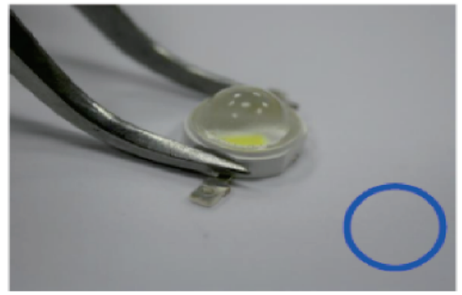
● Avoid leaving fingerprints on the silicone lens.

● Please store the LEDs away from dusty areas or seal the product against dust.

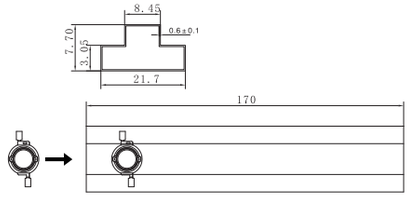
● When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the silicone lens must be prevented.

● Please do not mold over the silicone lens with another resin. (epoxy, urethane, etc)





■Xeon Power LED Packing: Plastic Tube



■ Handling of Ceramic LED