

Current Regulative LED
3.5x2.8x1.9mm Power Top SMD LED
OSXXXXS3C1A-CRLED18

VER A.1.2

0.1Typ.

19

Λ 3 0.8±0.3

1.Cathode

Unit:mm

2,3,4. Anode

Tolerance:±0.20mm

unless otherwise noted

CURRENT REGULATIVE LED

CRLED

- CRLED is LED which supplies constant current to keep LED Intensity Consistency even when power supply voltage fluctuations or load impedance fluctuations occur.
- CRLED is used with current stabilization and current limiting

■Features

- High Luminous PLCC4 Power Top SMD LEDs
- 3.5x2.8x1.9mm Standard Directivity
- Superior Weather-resistance / UV Resistant Silicone
- MSL LEVEL 6

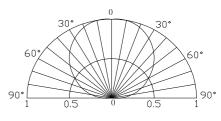
■Absolute Maximum Rating

Item	Symbol	Value	Unit				
DC Forward Voltage	VF	20	V				
Power Dissipation	PD	350	mW				
Operating Temperature	Topr	-30 ~ +85	°C				
Storage Temperature	Tstg	-40~ +100	°C				
Lead Soldering Temperature	Tsol	260°C/10sec	-				
■Electrical -Optical Characteristics (Ta=25°C)							

■ Directivity

0.75

■ Outline Dimension



Electrical -Optical Characteristics

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	Color		VF(V)		IF (mA)		$I_{R}(\mu A)$	Iv(mcd)*		$\lambda D(nm)^*$			2θ1/2(deg)		
Part Number			Min	Ma	Min	Тур.	Max.	Max	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
			. X.		$V_{\rm F}$ =12V		V _R =8V	V _F =12V							
OSW54LS3C1A-CRLED18	Cool White		5.5	20		18	-	10	-	2000	-	X=0).27, Y=	0.28	120
OSW44LS3C1A-CRLED18	Nature White		5.5	20		18	-	10	-	2100	-	X=0.31, Y=0.34		120	
OSM54LS3C1A- CRLED18	Warm White		5.5	20		18	-	10	-	1600	-	X=0.45, Y=0.41		120	
OSB64LS3C1A- CRLED18	Ice Blue		5.5	20		18		10	-	2100		X=0.19, Y=0.29		120	
OSB5SAS3C1A-CRLED18	Blue		5.5	20		18	-	10	-	280	-	465	470	475	120
OSG5DAS3C1A-CRLED18	Pure Green		5.5	20		18	-	10	-	900	-	520	525	530	120
OSY5MAS3C1A- CRLED18	Yellow		5	20		18	-	10	-	400	-	585	590	595	120
OSR5MAS3C1A- CRLED18	Red		5	20		18	-	10	-	400	-	620	625	630	120

(Ta=25°C)

*1 Tolerance of measurements of chromaticity coordinate is $\pm 10\%$

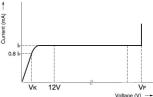
*2 Tolerance of measurements of dominant wavelength is +1nm

*3 Tolerance of measurements of luminous intensity is +15%

*4 Tolerance of measurements of forward voltage is±0.1V

■Applications

- Electronic Signs And Signals/ Small Area Illuminations
- Back Lighting/ Toys/ Other Lighting



Explanation of terms IP :Pinch-off current at 12V Vk:Voltage which produces 0.8Ip or greater current VF Breakdown voltage



LED & Application Technologies





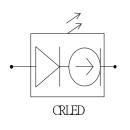


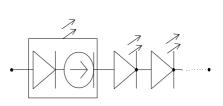


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■Typical Applications

1: Single LED





2: Multi-LEDs in series

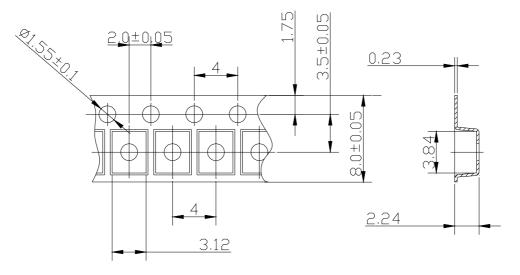
CRLED LED 1 LED 2

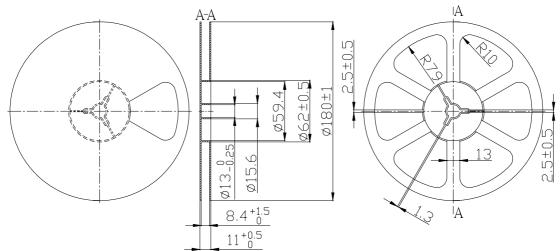




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PACKING DIMENTIONS





Notes:

1. Unit: mm

2. 2000pcs/Reel





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Precautions in Use for Surface Mount Diode

■ Storage

 \cdot 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: $5 \sim 30^{\circ}$ C Humidity: Less than 30%.

If the package has been opened more than 24 Hours, components should be dried for 12hrs, at 60 ± 5 °C.

 \cdot 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 which may 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.

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

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