

# Round LED

## Warm Super White, 3mm

**multicomp** PRO

**RoHS  
Compliant**



### Specifications:

Dice material	: InGaN
Emitted colour	: White
Lens colour	: Water clear
Dominant wavelength	: $\lambda = 0.32$
Viewing angle	: 36°
Luminous intensity (IV)	: 9,000mcd

### Absolute Maximum Ratings (T<sub>A</sub> = 25°C)

Reverse Voltage	5V
Reverse Current	10µA (V <sub>R</sub> = 5V)
Electrostatics Discharge (ESD)	200V
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	-40°C to +100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

### Electrical/Optical Characteristics at T<sub>A</sub> = 25°C

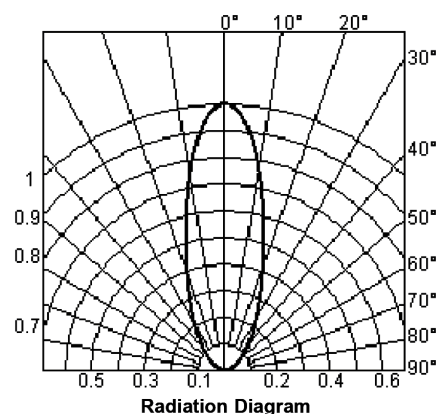
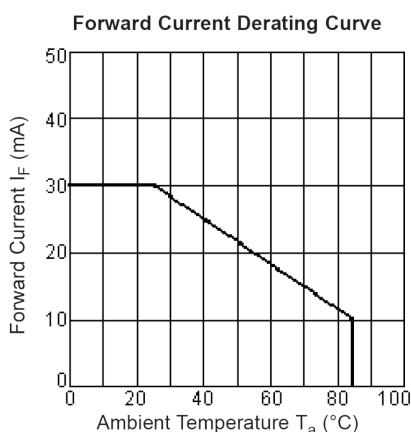
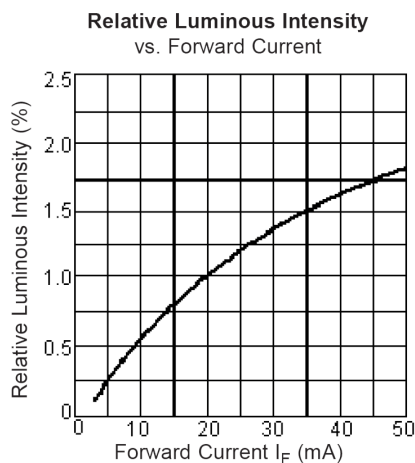
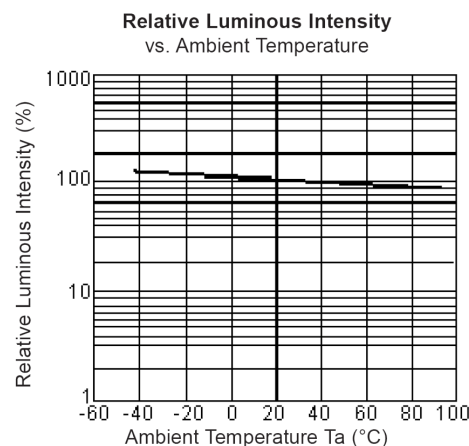
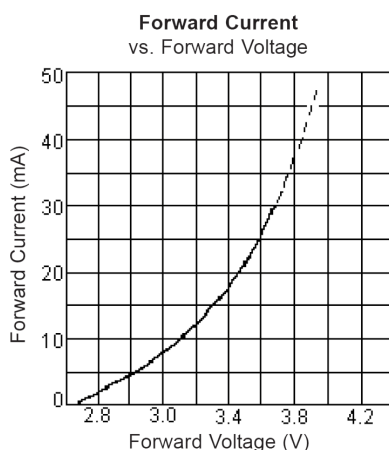
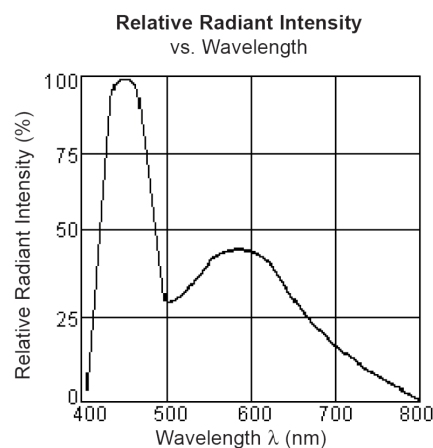
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	2,500	3,700	5,500	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	36	-	degrees	
Chromaticity Coordinate	X		0.3		nm	
	Y		0.32			
Spectral Line Half-Width	Δλ	-	-	-		
Forward Voltage	V <sub>F</sub>	2.7	3.4	4	V	
Power Dissipation	P <sub>d</sub>	-	-	85	mW	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	mA	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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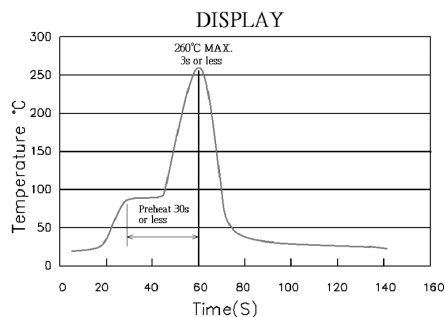
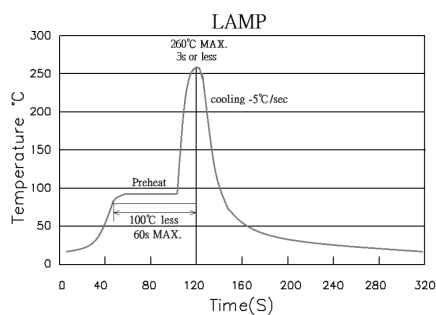
### White Typical Electrical Optical Characteristics Curves ( $T_A = 25^\circ\text{C}$ Ambient Temperature Unless Otherwise Noted)



## Soldering

Recommended soldering condition as shown below:

Soldering heat (DIP)



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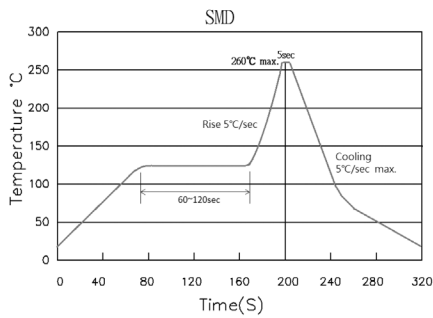
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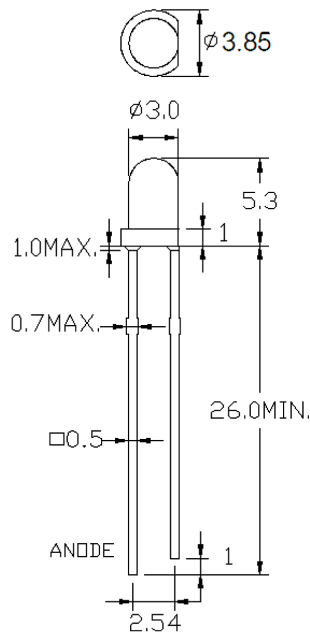
### Soldering Iron

Temperature at tip of iron: 350°C Max. Soldering Time: 3sec. ±1sec. (one time only) If temperature is higher, time should be shorter.

### Reflow Temp./Time (SMD)



### Diagram



### Part Number Table

Description	Part Number
LED, 3mm, 36°, warm super white	MCL034SWC-YH1

Dimensions : Millimetres

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