# Round LED Super Red, 4.8mm x 4.4mm



RoHS Compliant

## **Specifications**

Dice Material : AlInGaP
Emitted colour : Super Red
Lens colour : Red Diffused
Peak wavelength : 653nm
Viewing angle : 130°
Luminous intensity (IV) : 85mcd

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Luminous Intensity	IV	60	85	100	mcd	
Viewing Angle	2θ1/2		130		deg	]
Peak Emission Wavelength	λр		653		nm	IF = 20mA
Dominant Wavelength	λD	632	637	643	nm	] IF = 20MA
Spectral Line Half-Width	Δλ		19		nm	]
Forward Voltage	VF	1.7	1.9	2.4	V	1
Reverse Current	lr	-	-	10	uA	VR=5V

Absolute Maximum Ratings: (Ta = 25°C)						
Parameter	Symbol	Rating	Unit			
Power Dissipation	Pd	85	mW			
Peak Forward Current ( Duty 1/10 @ 1KHZ )	IF (Peak)	100	mA			
Recommended Operating Current	IF (Rec)	30	mA			
Electrostatic Discharge	ESDнвм	2000	V			
Operating Temperature Range	Topr	-40 to +85	°C			
Storage Temperature Range	Тѕтс	-40 to +100	°C			
Lead Soldering Temperature Range (1.6 mm (1/16 inch) from body)	Reflow Soldering: 260°C for 5 sec. Hand Soldering: 350°C for 3 sec.					

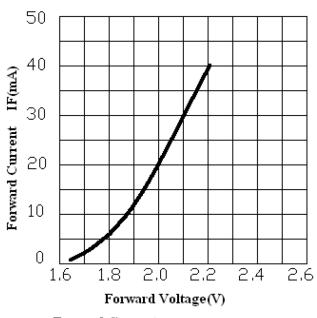
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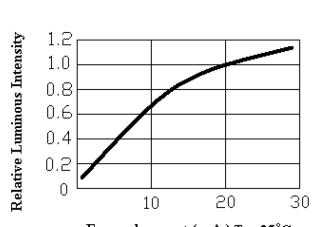


### **Typical Electro-Optical Characteristics Curves**

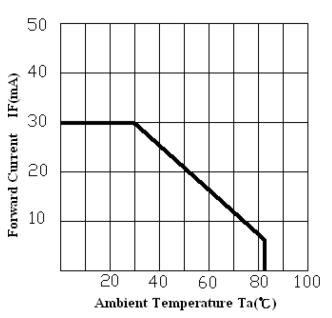
## Super Yellow (AlInGaP \( \lambda P = 590nm \)



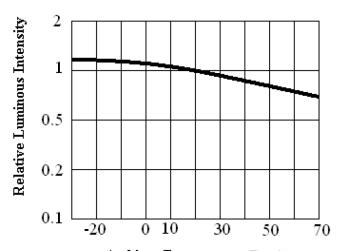
Forward Current vs. Forward Voltage



Forward current (mA) Ta=25°C Luminous Intensity vs. Forward current



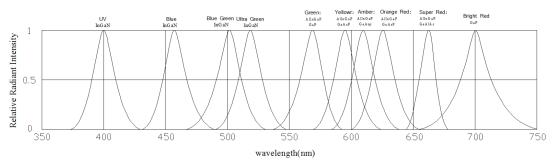
Forward Current Derating Curve



Ambient Temperature Ta=  $^{\circ}$ C Luminous Intensity vs. Ambient Temperature

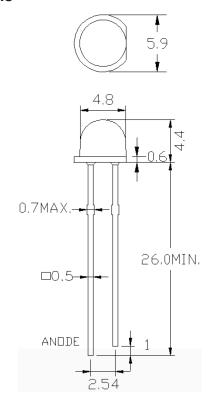
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Relative Intensity VS. wavelength

### **Dimensions**



Dimensions : Millimetres

#### **Part Number Table**

Description	Part Number
Round LED, Super Red, 653nm, 130°, 85mcd, Through hole	MP007971

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