

# SMD LED

## 1206, Super Red



### Specifications:

Dice material	: GaAlAs
Emitted colour	: Super Red
Epoxy colour	: Water Clear
Peak wavelength	: 660nm
Viewing angle	: 140°
Luminous intensity (IV)	: 17mcd

### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Reverse Voltage	5V
Reverse Current	10 $\mu$ A ( $V_R = 5V$ )
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 $T_a = 25^\circ\text{C}$

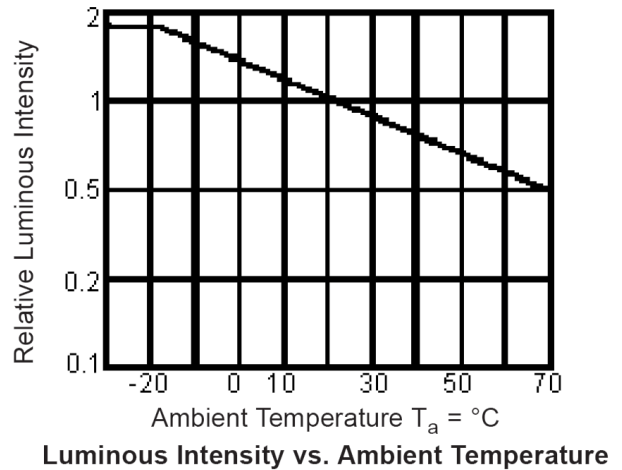
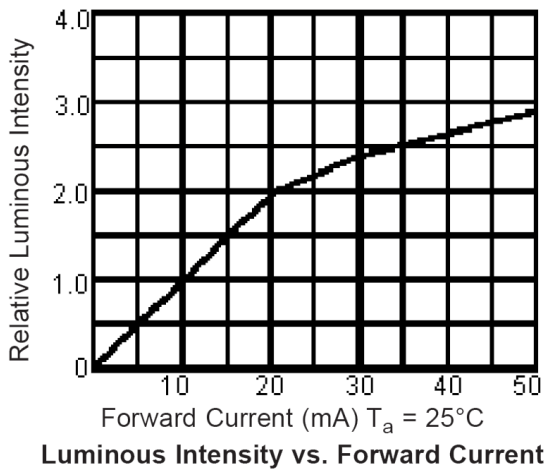
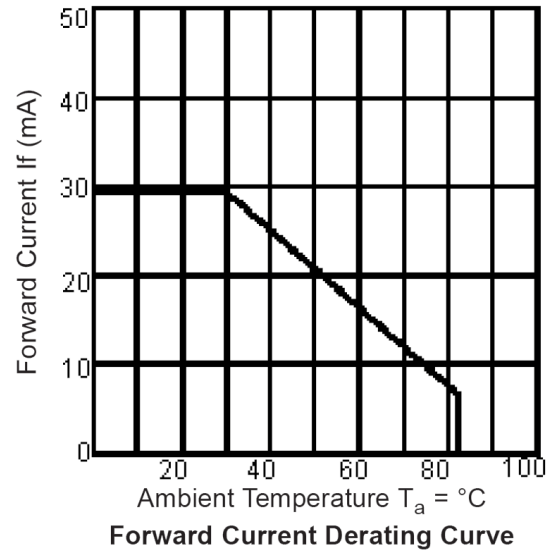
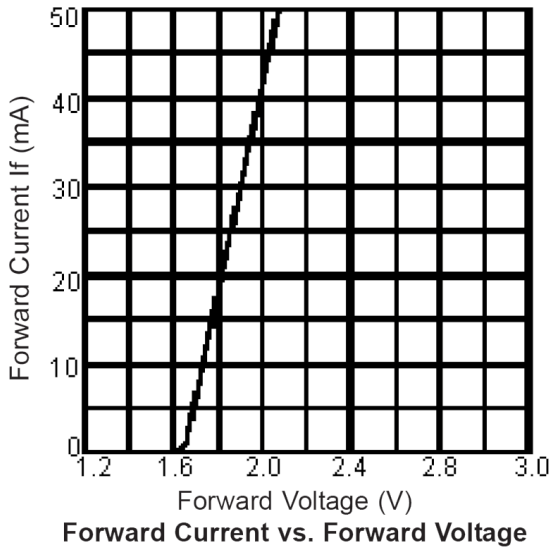
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8	17	23	mcd	IF = 20mA
Viewing Angle	2 $\theta$ 1/2	-	140	-	degrees	
Peak Emission Wavelength	$\lambda_P$	-	660	-	nm	-
Dominant Wavelength	$\lambda_D$	-	643	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	20	-		-
Forward Voltage	VF	1.5	1.85	2.5	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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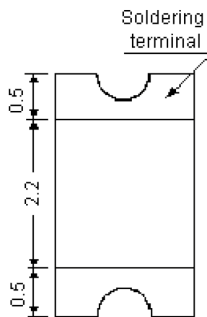
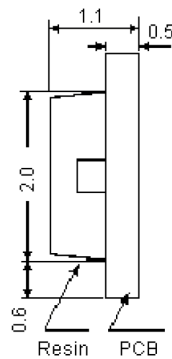
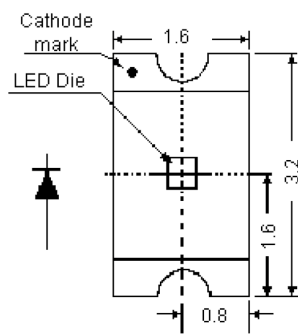
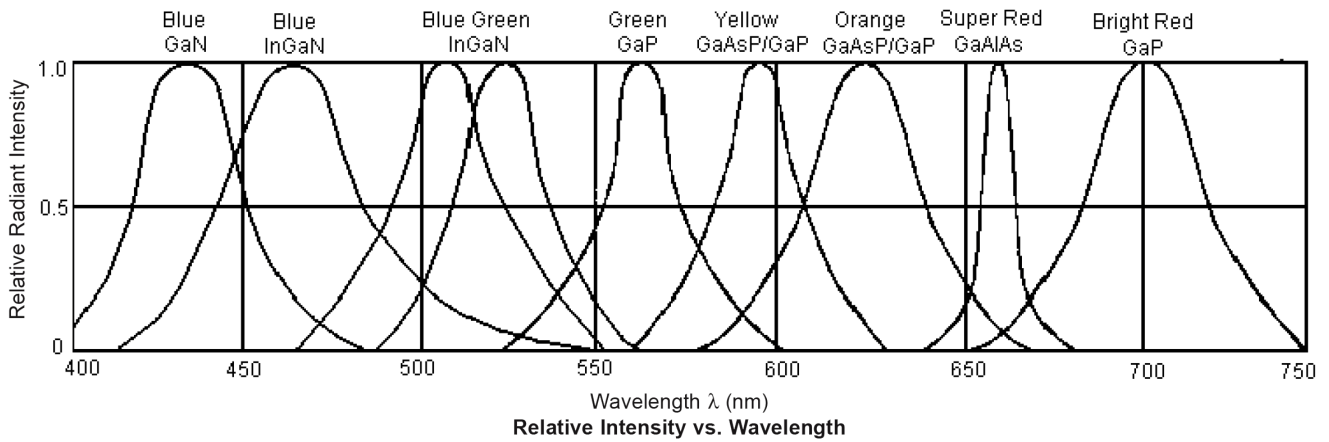


Super Red (GaAlAs)  $\lambda_P = 660\text{nm}$

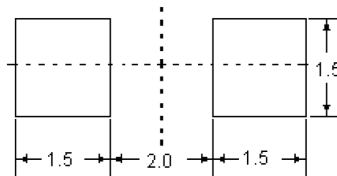


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• Recommended Soldering Patten for Reflow soldering



• The polarity is reversed on the SR, UR series  
 • Unit:mm Tolerance : +/-0.1

Dimensions : Millimetres

### Part Number Table

Description	Part Number
LED, SMD, 1206, Super-Red	MCL-S250SRC

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