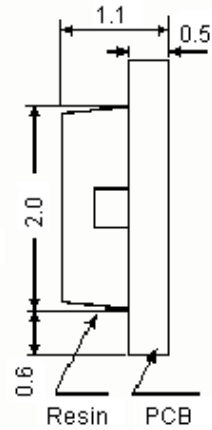
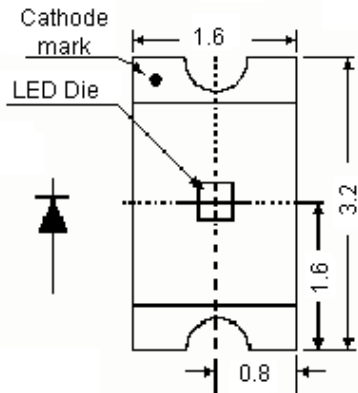


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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08



Specifications:

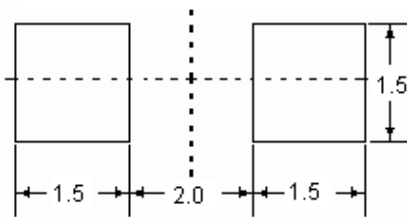
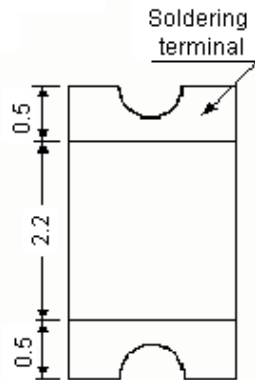
Dice material : GaAlAs.  
 Emitted color : Super red.  
 Epoxy color : Water clear.  
 Peak wavelength : 660nm.  
 Viewing angle : 140 degrees.  
 Luminous intensity (IV) : 17mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	8	17	23	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	λ <sub>p</sub>	-	660	-	nm	-
Dominant Wavelength	λ <sub>d</sub>	-	643	-		-
Spectral Line Half-Width	Δλ	-	20	-		-
Forward Voltage	V <sub>F</sub>	1.5	1.85	2.5	V	IF = 20mA
Power Dissipation	P <sub>d</sub>	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

• Recommended Soldering Patten for Reflow soldering



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

Dimensions : Millimetres

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CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:

1206 SMD LED - Super Red

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001142	L-S250SRC_DWG	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 4	



PART NO.

MCL-S250SRC

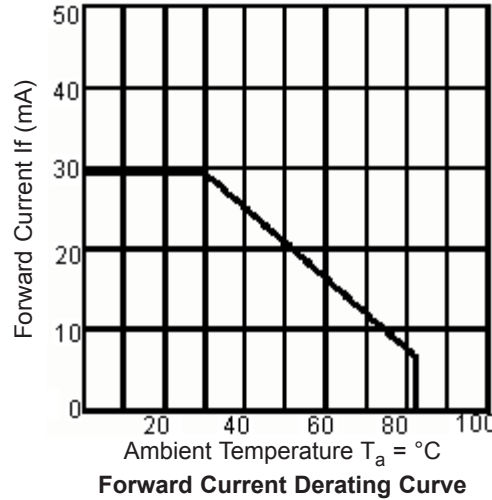
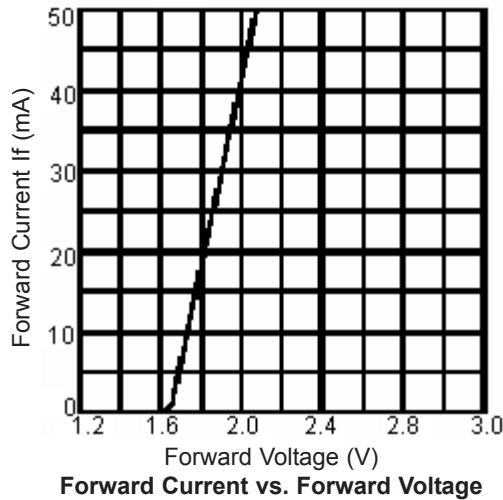
REVISIONS

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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

Reverse Voltage	5 Volt
Reverse Current	10µA (V <sub>R</sub> = 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

**Super Red (GaAlAs) λP = 660nm**



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Suresh	28/05/08
<b>APPROVED BY:</b>	<b>DATE:</b>
G.Cook	12/06/08

<b>DRAWING TITLE:</b>			
1206 SMD LED - Super Red			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
A	M10001142	L-S250SRC_DWG	A
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 2 OF 4</b>



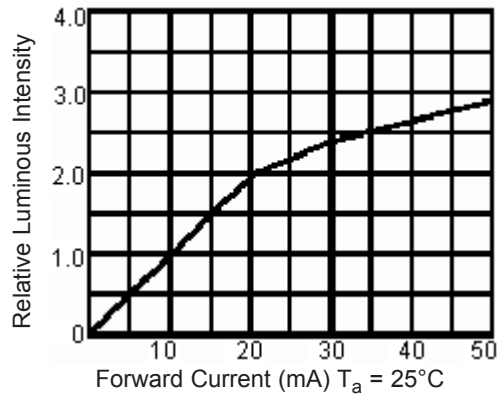
PART NO.

MCL-S250SRC

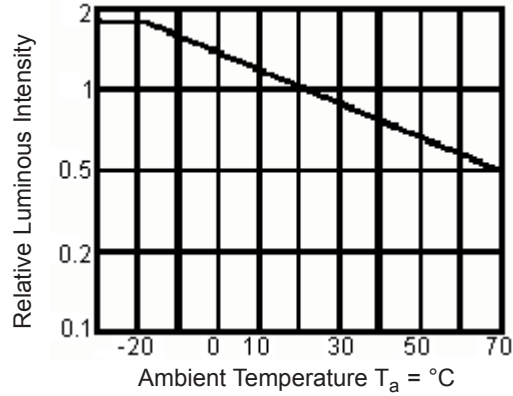
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

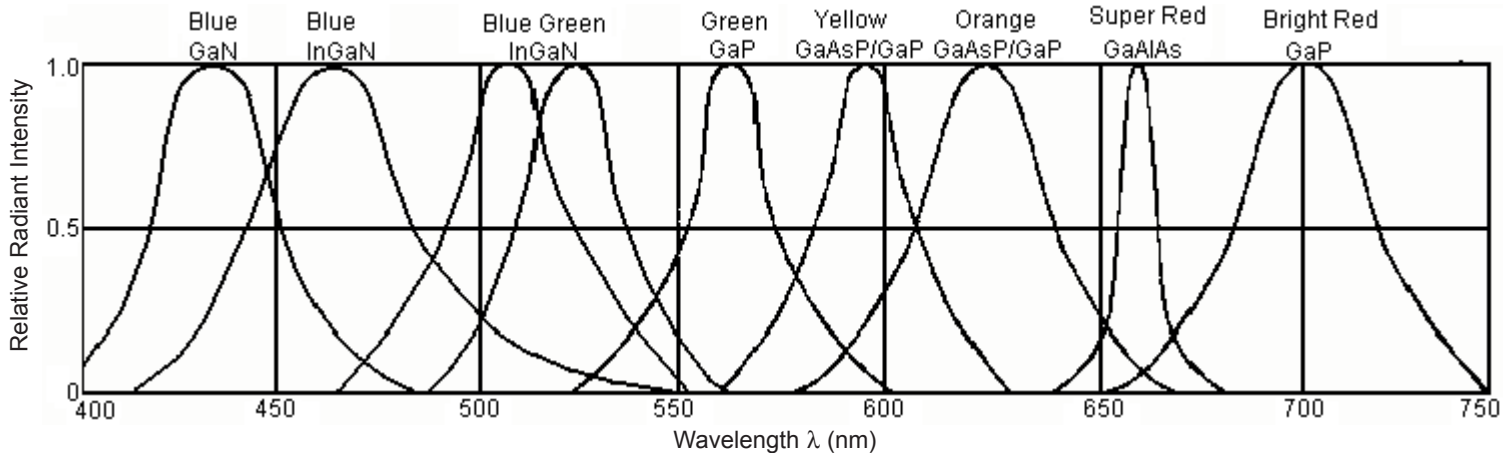
Super Red (GaAlAs)  $\lambda_P = 660\text{nm}$



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:

1206 SMD LED - Super Red

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001142	L-S250SRC_DWG	A
SCALE: NTS	U.O.M.: mm	SHEET: 3 OF 4	



PART NO.

MCL-S250SRC

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

Part Number Table

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

<http://www.farnell.com>

<http://www.newark.com>

<http://www.cpc.co.uk>

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<b>APPROVED BY:</b>	<b>DATE:</b>
G.Cook	12/06/08

<b>DRAWING TITLE:</b>			
<b>1206 SMD LED - Super Red</b>			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
<b>A</b>	<b>M10001142</b>	<b>L-S250SRC_DWG</b>	<b>A</b>
<b>SCALE: NTS</b>		<b>U.O.M.: mm</b>	<b>SHEET: 4 OF 4</b>