

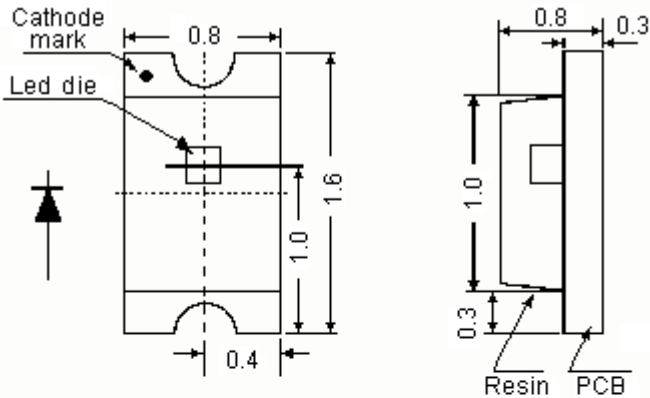


PART NO.

MCL-S290AC

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08



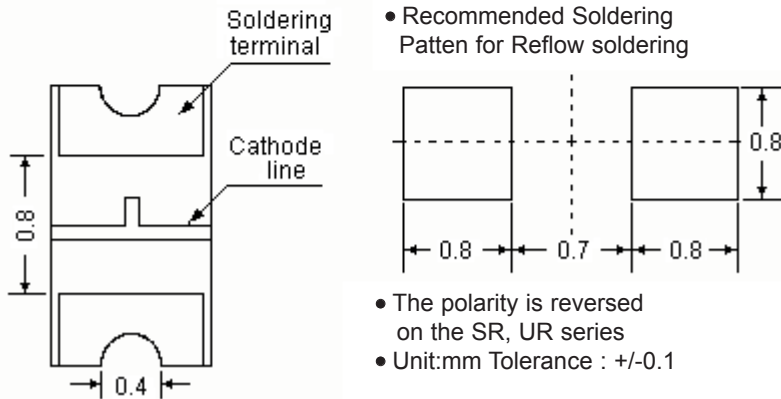
Specifications:

Dice material : GaAsP on GaP.  
 Emitted color : Orange.  
 Lens color : Water clear.  
 Peak wavelength : 635nm.  
 Viewing angle : 140 degrees.  
 Luminous intensity (IV) : 11mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5	11	17	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	• λ <sub>p</sub>	-	635	-	nm	-
Dominant Wavelength	• λ <sub>D</sub>	-	627	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2.0	2.6	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	-



• Recommended Soldering Patten for Reflow soldering

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

Dimensions : Millimetres (Inches)

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TOLERANCES:

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Rekha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

0603 SMD LED - Orange

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001175	MCL-S290AC_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

MCL-S290AC

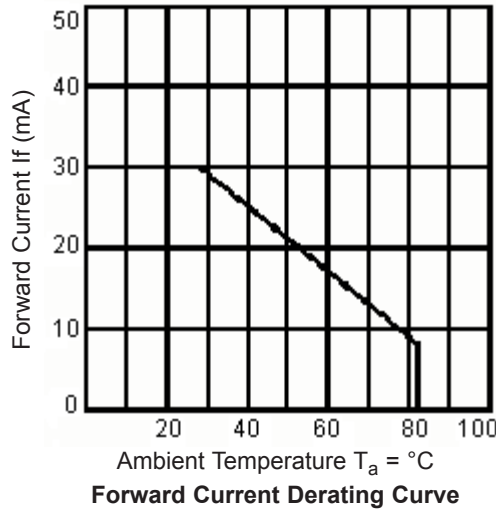
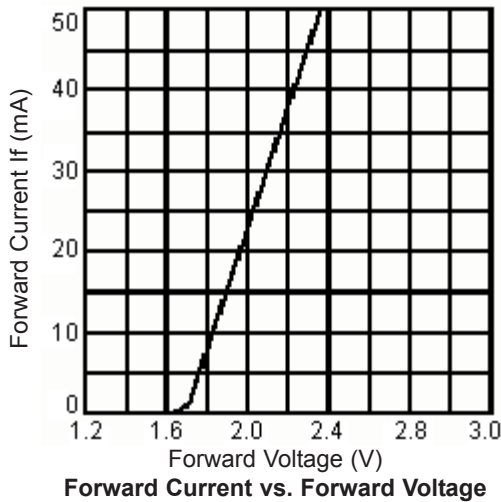
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**Absolute Maximum Ratings (T<sub>a</sub> = 25°C)**

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

**Orange (GaAsP/CaP λ<sub>P</sub> = 635nm)**



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**DRAWING TITLE:**

**0603 SMD LED - Orange**

<b>SIZE</b> A	<b>DWG NO.</b> M10001175	<b>ELECTRONIC FILE</b> MCL-S290AC_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 2 OF 4</b>



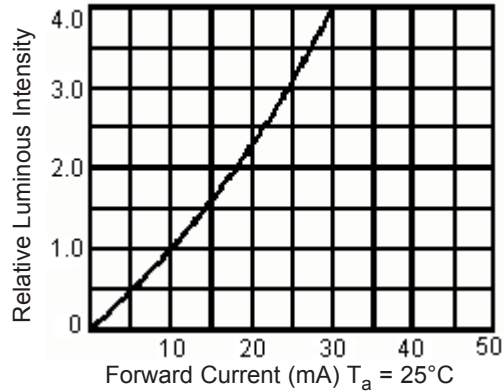
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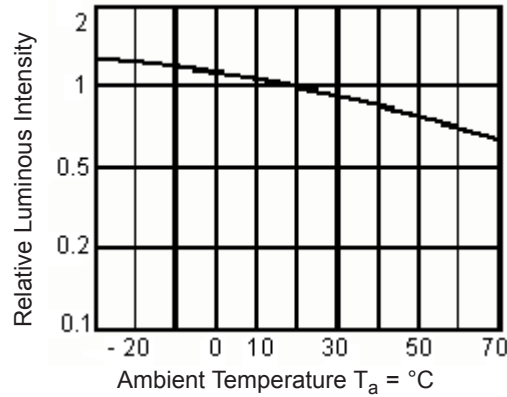
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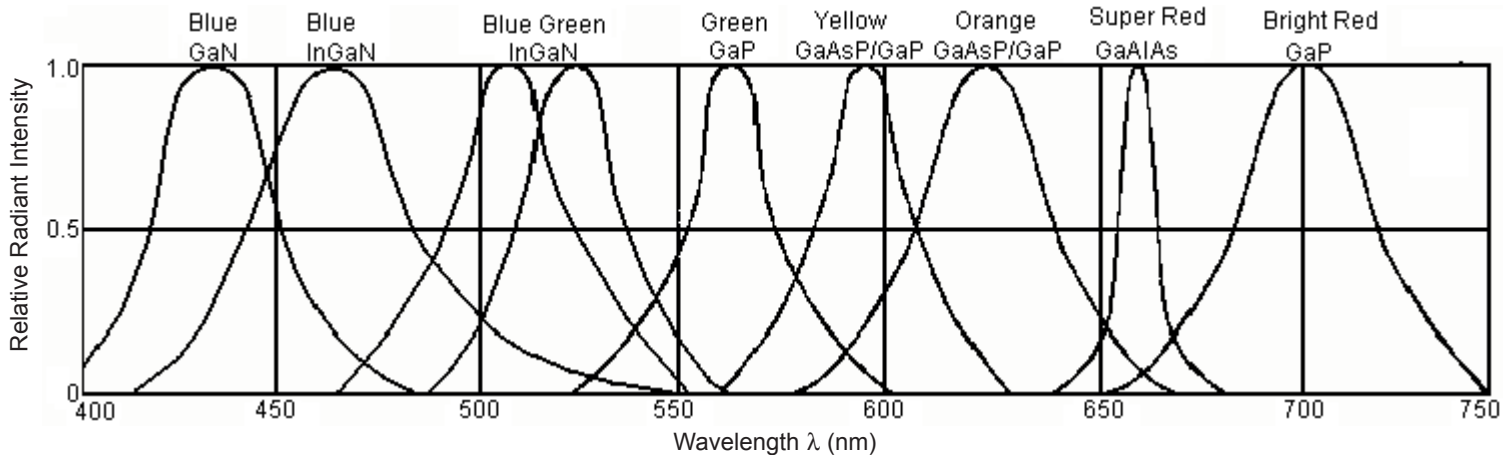
Orange (GaAsP/CaP  $\lambda_P = 635\text{nm}$ )



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 4	



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Part Number Table

Description	Part Number
LED, SMD, 0603, Orange	MCL-S290AC

<http://www.farnell.com>

<http://www.newark.com>

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

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SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 OF 4	