

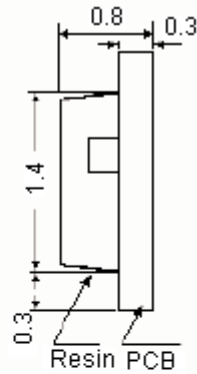
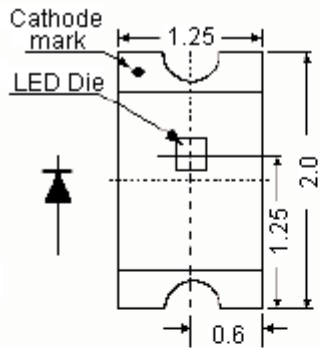


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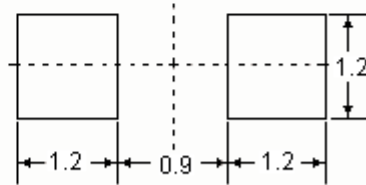
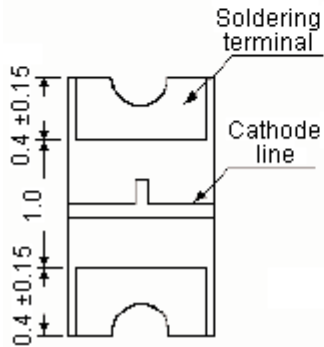
MCL-S270AC

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



- Recommended Soldering Patten for Reflow Soldering



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

Dimensions : Millimetres

Specifications:

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



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	5	11	16	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	• λ _p	-	635	-	nm	-
Dominant Wavelength	• λ _d	-	627	-		-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	V _F	1.7	2.1	2.6	V	IF = 20mA
Power Dissipation	P _d	-	-	80	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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

DRAWING TITLE:

0805 SMD LED - Orange

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001140	L-S270AC_DWG	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 4	



PART NO.

MCL-S270AC

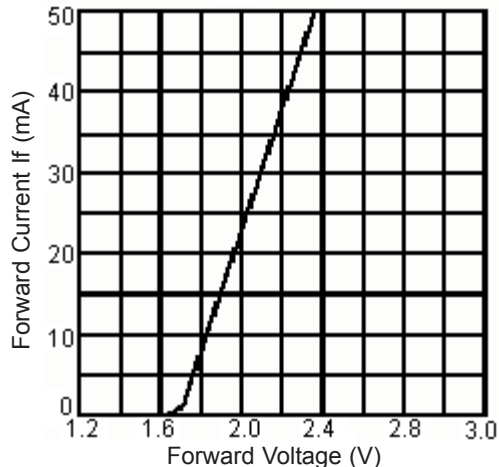
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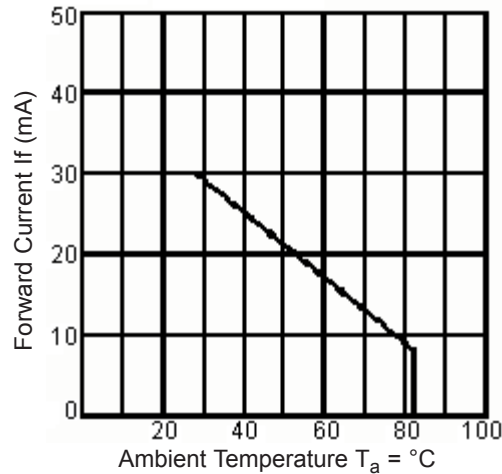
Absolute Maximum Ratings (T_a = 25°C)

Reverse Voltage	5 Volt
Reverse Current	10µA (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

Orange (GaAsP/CaP) λP = 635nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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0805 SMD LED - Orange

SIZE A	DWG NO. M10001140	ELECTRONIC FILE L-S270AC_DWG	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 4



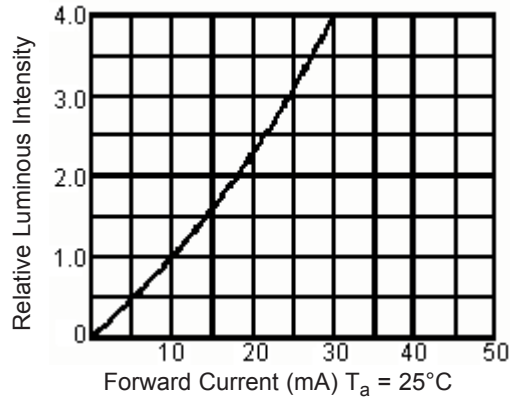
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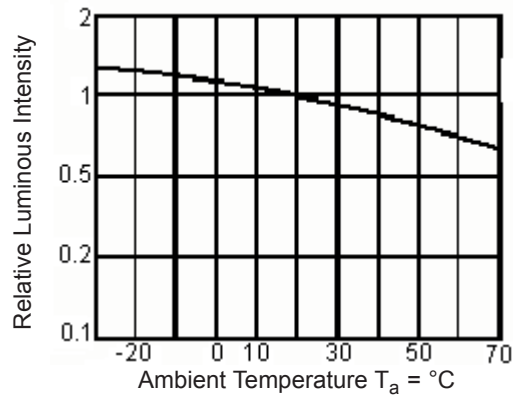
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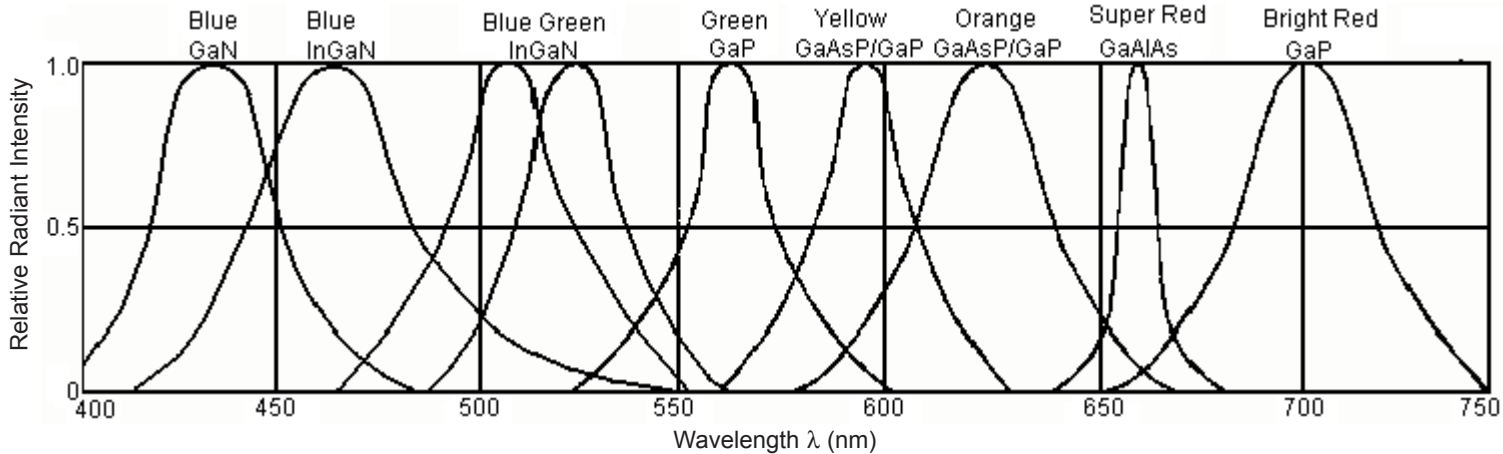
Orange (GaAsP/CaP) $\lambda_P = 635\text{nm}$



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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



PART NO.

MCL-S270AC

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Part Number Table

Description	Part Number
LED, SMD, 0805, Orange	MCL-S270AC

<http://www.farnell.com>

<http://www.newark.com>

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

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0805 SMD LED - Orange

SIZE A	DWG NO. M10001140	ELECTRONIC FILE L-S270AC_DWG	REV A
SCALE: NTS	U.O.M.: mm	SHEET: 4 OF 4	