

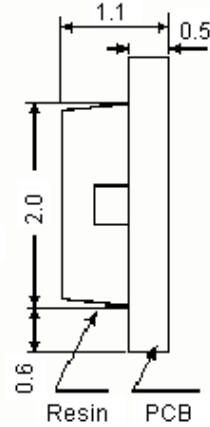
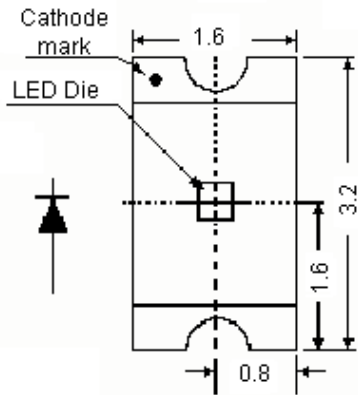


PART NO.

MCL-S250AC

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Veena	27/5/08	Suresh	27/5/08	G. C	11/6/08



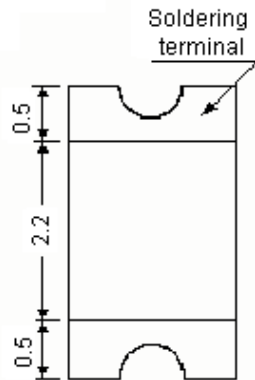
Specifications:

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

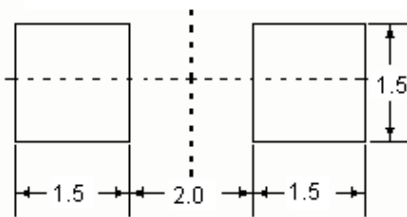


Electrical/Optical Characteristics at T_a = 25°C

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	1.6	2.0	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	-



• Recommended Soldering Patten for Reflow soldering



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

Dimensions : Millimetres

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Veena	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

1206 SMD LED - Orange

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001126	L-S250AC_DWG	A
SCALE: NTS	U.O.M.: mm	SHEET: 1 OF 4	



PART NO.

MCL-S250AC

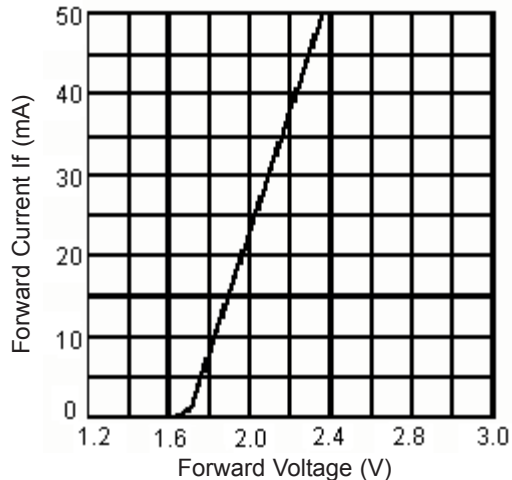
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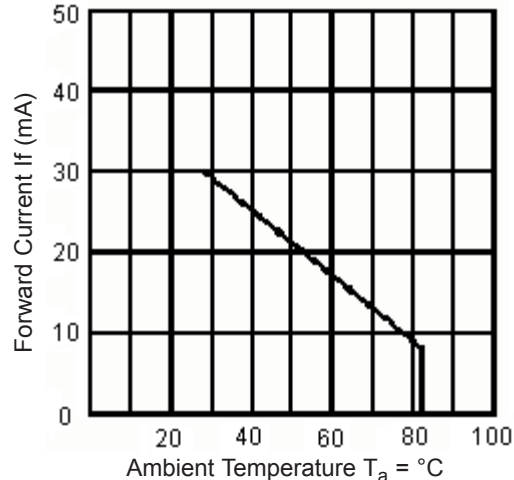
Absolute Maximum Ratings (T_a = 25°C)

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 λ_P = 635nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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G.Cook	11/06/08

DRAWING TITLE:

1206 SMD LED - Orange

SIZE A	DWG NO. M10001126	ELECTRONIC FILE L-S250AC_DWG	REV A
SCALE: NTS		U.O.M.: mm	SHEET: 2 OF 4



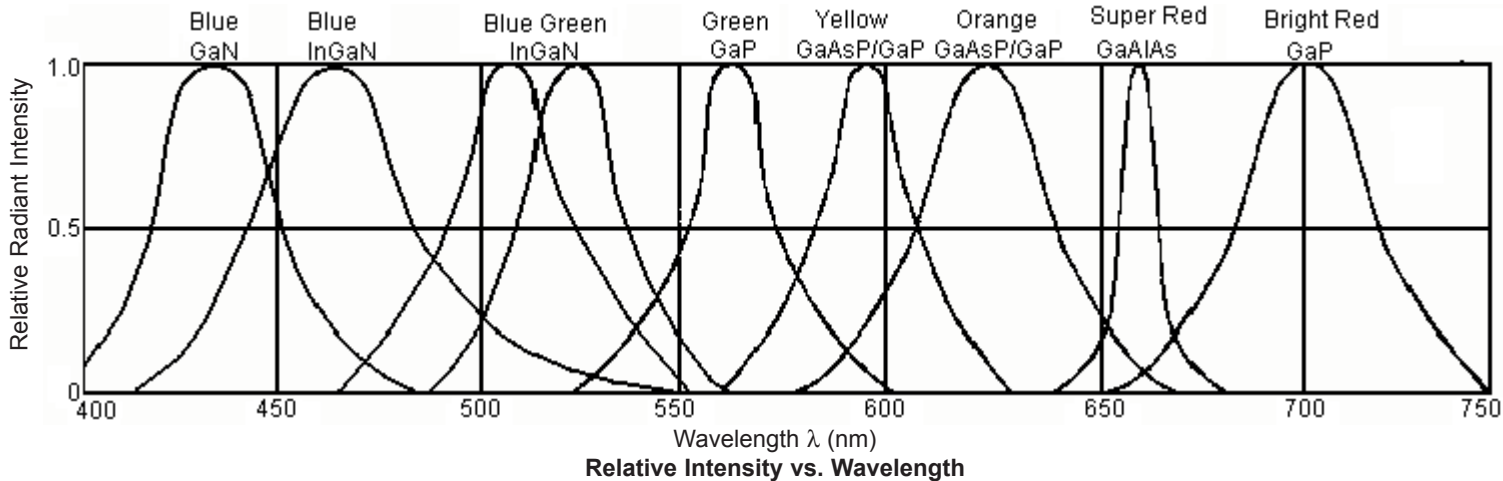
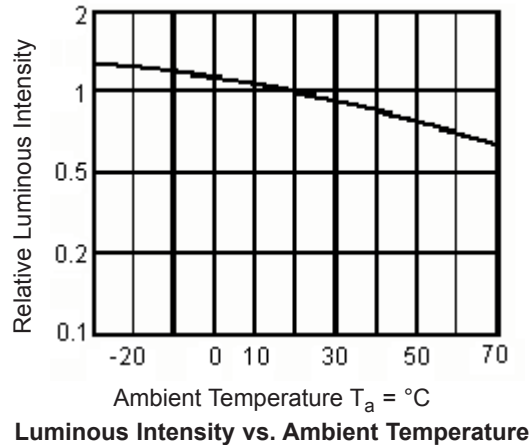
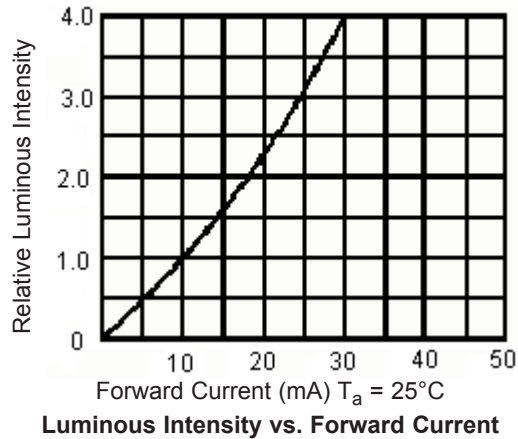
PART NO.

MCL-S250AC

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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Orange (GaAsP/CaP $\lambda_P = 635\text{nm}$)



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1206 SMD LED - Orange			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001126	L-S250AC_DWG	A
SCALE: NTS		U.O.M.: mm	SHEET: 3 OF 4



PART NO.

MCL-S250AC

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Part Number Table

Description	Part Number
LED, SMD, 1206, Orange	MCL-S250AC

<http://www.farnell.com>

<http://www.newark.com>

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

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Suresh

APPROVED BY:

G.Cook

DATE:

27/05/08

DATE:

27/05/08

DATE:

11/06/08

DRAWING TITLE:

1206 SMD LED - Orange

SIZE
A

DWG NO.

M10001126

ELECTRONIC FILE
L-S250AC_DWG

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 4 OF 4