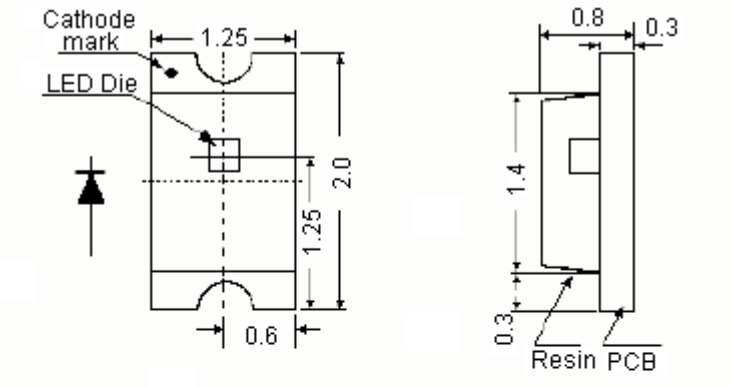
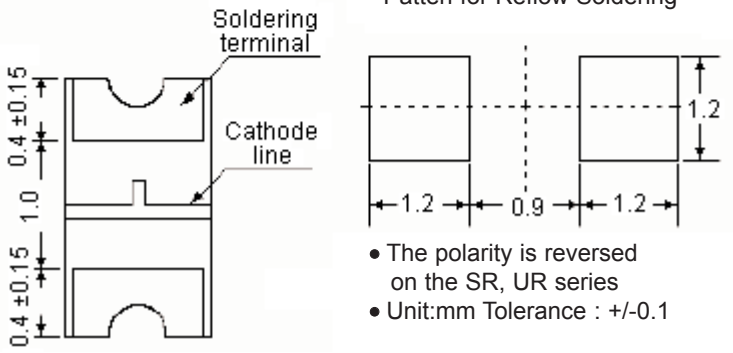
PART NO.	REVISIONS								
MCL-S270GC	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08



- 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 : GaP.
Emitted color : Green.
Epoxy color : Water clear.
Peak wavelength : 568nm.
Viewing angle : 140 degrees.
Luminous intensity (IV) : 10mcd.

RoHS Compliant

Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4.5	10	16	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	140	-	degrees	
Peak Emission Wavelength	• p	-	568	-	nm	-
Dominant Wavelength	• d	-	570	-		-
Spectral Line Half-Width	Δλ	-	30	-		-
Forward Voltage	VF	1.7	2.1	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	-

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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

DRAWING TITLE: 0805 SMD LED - Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001152	L-S270GC_DWG	A

SCALE: NTS | U.O.M.: mm | SHEET: 1 OF 4

PART NO.	REVISIONS								
MCL-S270GC	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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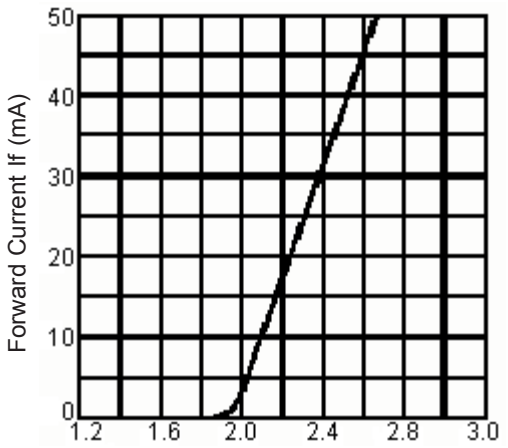
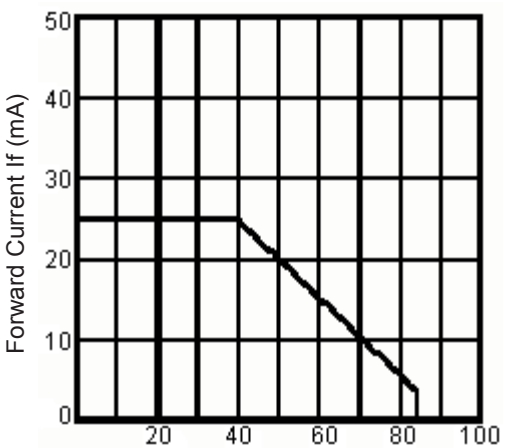
Absolute Maximum Ratings (T_a = 25°C)

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

Green (GaP) λP = 568nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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

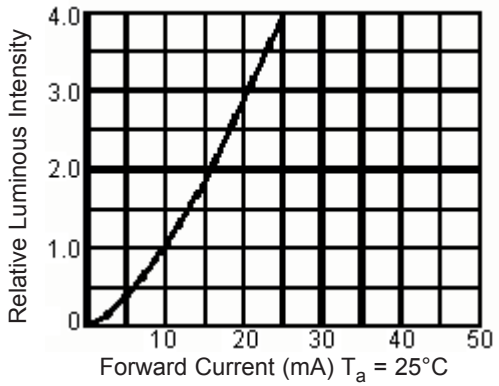
DRAWING TITLE: 0805 SMD LED - Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001152	L-S270GC_DWG	A

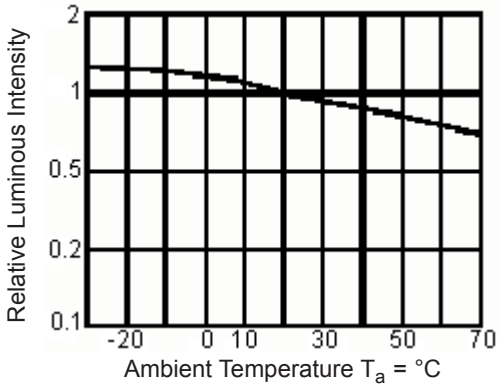
SCALE: NTS | U.O.M.: mm | SHEET: 2 OF 4

PART NO.	REVISIONS								
MCL-S270GC	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Geetha	28/5/08	Suresh	28/5/08	G. C	12/6/08

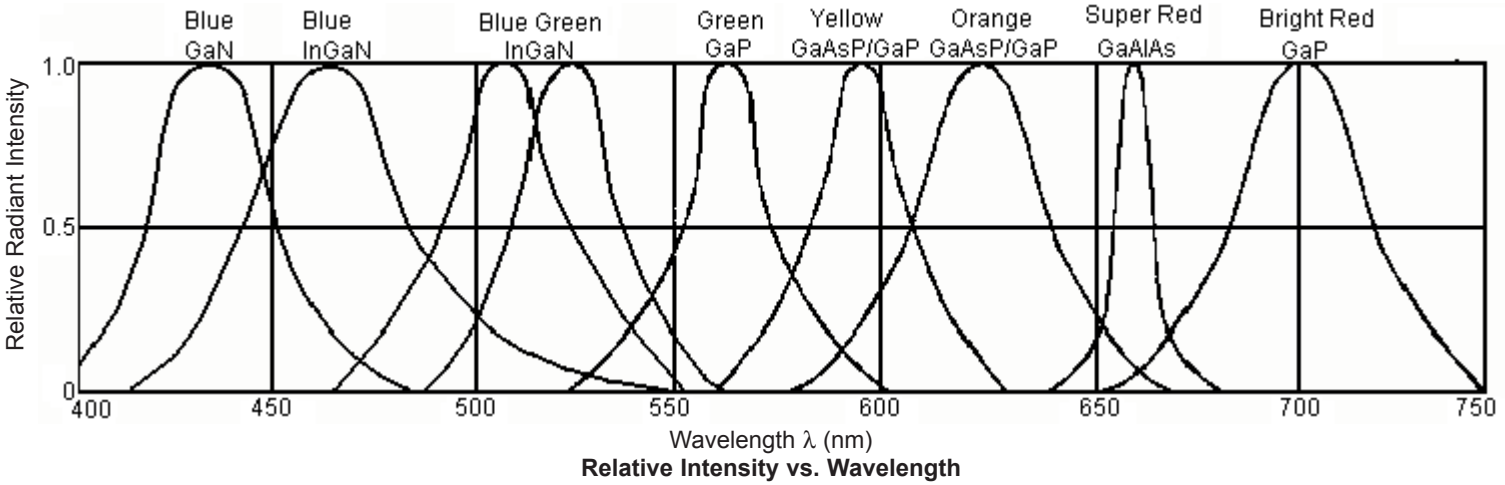
Green (GaP) λP = 568nm)



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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

DRAWING TITLE: 0805 SMD LED - Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001152	L-S270GC_DWG	A

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

PART NO.	REVISIONS								
MCL-S270GC	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, 0805, Green	MCL-S270GC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

TOLERANCES:

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

DRAWING TITLE: 0805 SMD LED - Green

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001152	L-S270GC_DWG	A

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