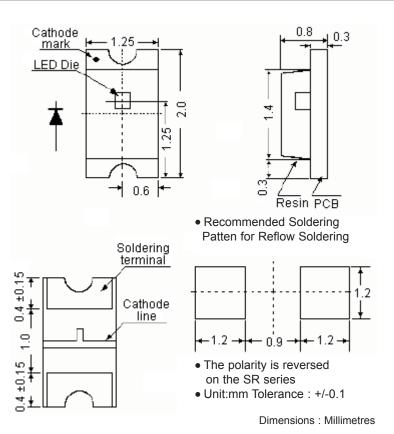


MCL-S270SRC

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	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_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	14	17	20	mcd	IF = 20mA
Viewing Angle	20 1/2	-	140	-	degrees	IF - ZUIIIA
Peak Emission Wavelength	• p	-	660	-		-
Dominant Wavelength	• 10	-	643	-	nm	-
Spectral Line Half-Width	Δλ	-	20	-		-
Forward Voltage	VF	1.5	1.85	2.4	V	IF = 20mA
Power Dissipation	Pd	-	-	100	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	120	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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

:	DRAWI	NG TITLE:										
3				0805 SMD LED -	Sup	er Red						
:]	SIZE	DWG NO.			ELEC		REV					
	Α		ľ	M10001150	L-S27	'0SRC_DW	'G		A			
:_	SCVI	E: NTS		U.O.M.: mm		SHEET	1					
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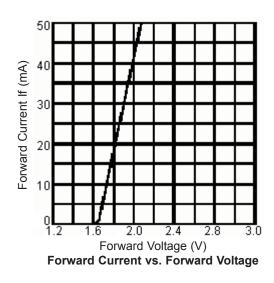
MCL-S270SRC

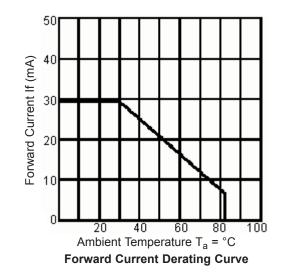
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Absolute Maximum Ratings $(T_a = 25^{\circ}C)$

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

Super Red (GaAlAs) $\lambda P = 660$ nm)





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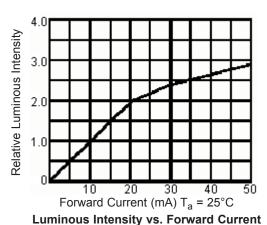
	DRAWI	NG TITLE:						
]		0805 SMD LED -	Sup	er Red			
	SIZE A	DWG NO.	M10001150	ELECTRONIC FILE L-S270SRC_DWG				REV A
_	SCAL	E: NTS	U.O.M.: mm		SHEET:	2	OF	- 4

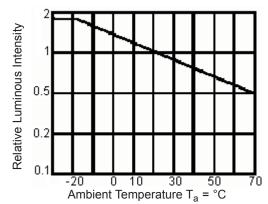


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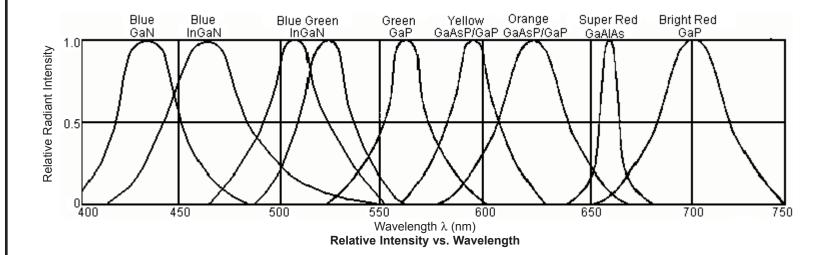
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Super Red (GaAlAs) $\lambda P = 660$ nm)





Luminous Intensity vs. Ambient Temperature



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G.Cook	12/06/08

	DRAWI	NG TITLE:						
]		0805 SMD LED -	Sup	er Red			
	SIZE A	DWG NO.	M10001150	ELECTRONIC FILE L-S270SRC_DWG				REV A
_	SCAL	E: NTS	U.O.M.: mm		SHEET:	3	OF	- 4



MCL-S270SRC

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

Part Number Table

Description	Part Number		
LED, SMD, 0805, Super-Red	MCL-S270SRC		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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G.Cook	12/06/08

	DRAWI	NG TITLE:						
	0805 SMD LED - Super Red							
	SIZE	DWG NO.	M10001150	ELECTRONIC FILE L-S270SRC_DWG			REV A	
SCALE: NTS		E: NTS	U.O.M.: mm		SHEET:	4	OF	4