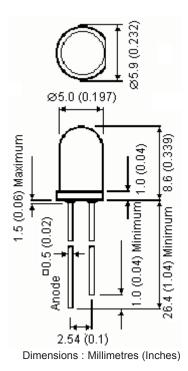


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MCL053SRDD

		REVISIONS			·	·	·	·
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08



Specifications:

Dice material : GaAlAs.

Emitted color : Super red.

Lens color : Red diffused.

Peak wavelength : 660nm.

Viewing angle : 45 degrees.

Luminous intensity (IV) : 75mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test	
Luminous Intensity	IV	40	75	115	mcd	IF = 20mA	
Viewing Angle	2θ 1/2	-	45	-	degrees	ir = 20MA	
Peak Emission Wavelength	• p	-	660	-		-	
Dominant Wavelength	• 10	-	643	- nm		-	
Spectral Line Half-Width	Δλ	-	20	-		-	
Forward Voltage	VF	1.5	1.85	2.5	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	-	

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

DRAWI	DRAWING TITLE:							
5.0mm Round LED Lamp - Red								
SIZE DWG NO.			M10001188	ELECTRONIC FILE L053SRDD_DWG				REV A
SCALE: NTS		U.O.M.: mm (Inches)	·	SHEET:	1	OF	4	



PART NO.

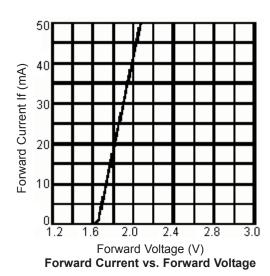
MCL053SRDD

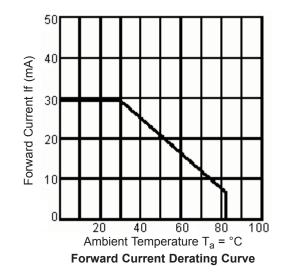
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Absolute Maximum Ratings ($T_a = 25$ °C)

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

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





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G.Cook	13/06/08

	DRAWING TITLE:								
	5.0mm Round LED Lamp - Red								
	SIZE DWG NO. M			M10001188		TRONIC FII			REV A
_	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2	OF	: 4	

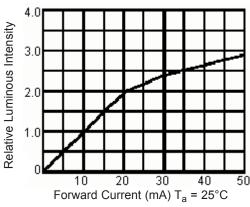


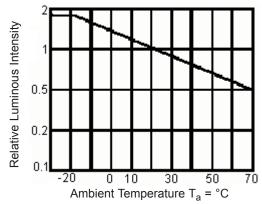
PART NO.

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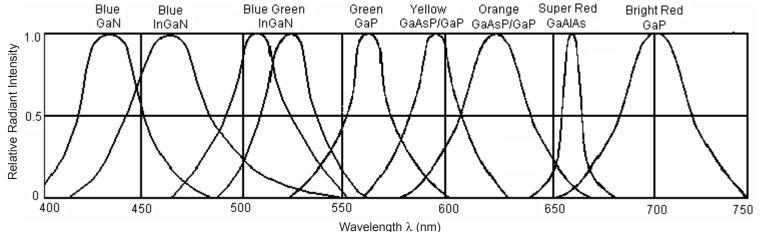
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

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





Luminous Intensity vs. Forward Current Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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G.Cook	13/06/08

5.0mm Round LED Lamp - Red

SIZE	DWG NO.	M10001188	ELECTRONIC FILE L053SRDD_DWG				REV A
SCALE: NTS		U O M · mm (Inches)		SHEET	3	OF	= 4



PART NO.

MCL053SRDD

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

Part Number Table

Description	Part Number		
LED, 5mm, 36°, Red	MCL053SRDD		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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

DRAW			
		5.0mm Round LED Lai	mp - Red
SIZE	DWG NO.	N440004400	ELECTRONIC

 SIZE A
 DWG NO.
 M10001188
 ELECTRONIC FILE L053SRDD_DWG
 REV A

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