

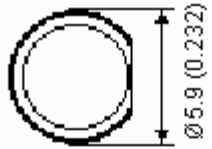


PART NO.

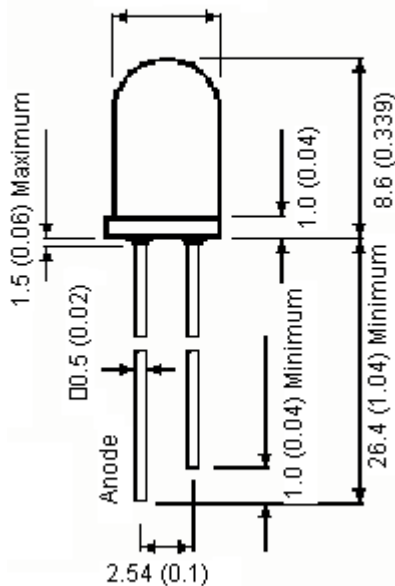
MCLF056SRD

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Geetha	30/5/08	Suresh	30/5/08	G. C	13/6/08



Ø5.0 (0.197)



Dimensions : Millimetres (Inches)

Features:

- Built-in IC chip, flashes lamp on and off to attract attention.
- Operating voltage range : 3V-10V dc.
- 1/4 duty cycle.
- Blinking frequency : 2.4Hz ($V_{dd} = 5V$).
- Frequency tolerance : 20%.

Specifications:

- Dice material : GaAlAs.
- Emitted color : Super red.
- Lens color : Red diffused.
- Peak wavelength : 660nm.
- Viewing angle : 45 degrees.
- Luminous intensity (IV) : 50mcd.

Electrical Optical Characteristics at $T_a = 25^\circ C$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test Condition
Luminous Intensity	I_V	-	35	-	mcd	$I_f = 20mA$
Peak Emission Wavelength	λ_p	-	660	595	nm	Measurement at Peak
Dominant Wavelength	λ_d	-	643	-		$I_f = 20mA$
Operating Voltage	V_{dd}	3	5	10	V	-
Blinking Frequency	F_{blk}	2.0	2.4	2.8	Hz	-
Reverse Current	I_R	-	-	100	μA	$V_R = 5V$

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Geetha	30/05/08
CHECKED BY:	DATE:
Suresh	30/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Super Red

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001206	LF056SRD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



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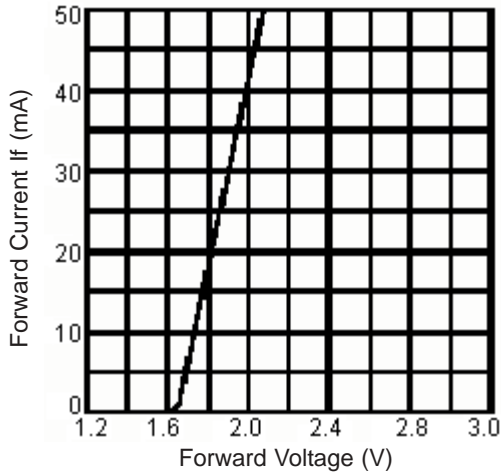
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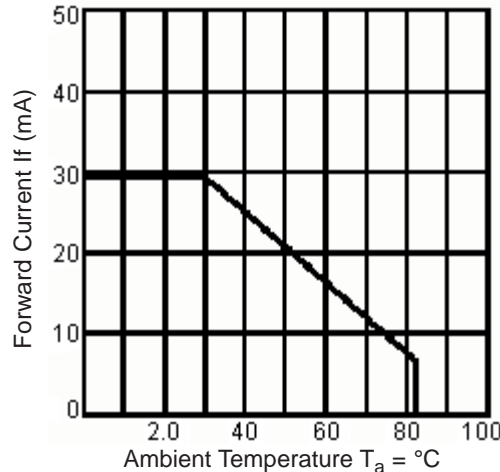
Absolute Maximum Ratings at T_a = 25°C

Parameter	Maximum	Unit
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range		
Lead Soldering Temperature [4mm (0.157 inch) from body]	260°C for 5 Seconds	

Super Red (GaAlAs) λP = 660nm)



Forward Current vs. Forward Voltage



Forward Current Derating Curve

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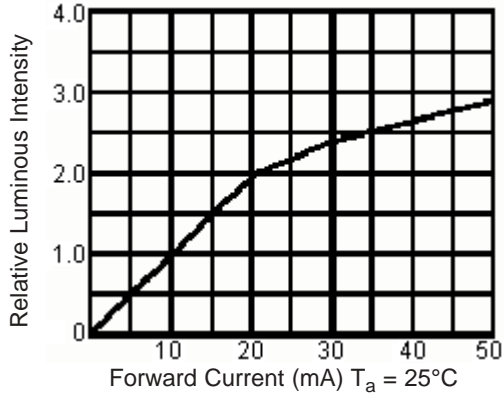
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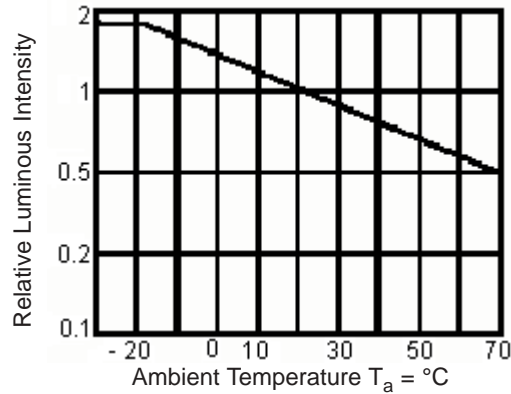
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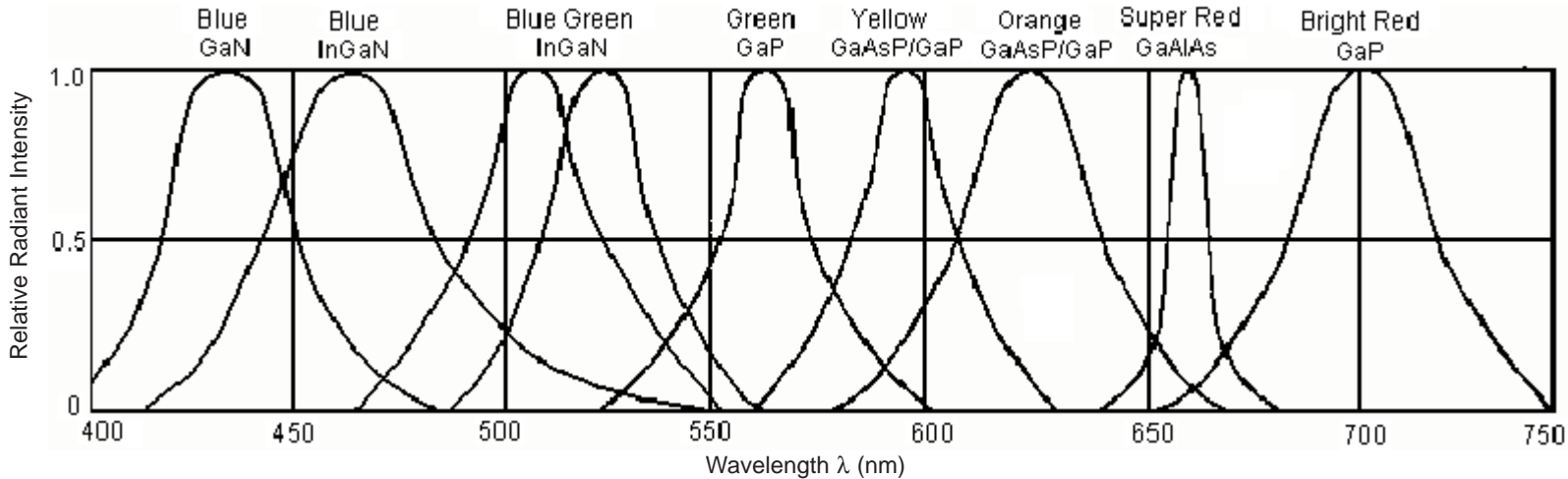
Super Red (GaAlAs) λP = 660nm



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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Part Number Table

Description	Part Number
LED, Flashing, 5mm, Super-Red	MCLF056SRD

<http://www.farnell.com>

<http://www.newark.com>

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

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