

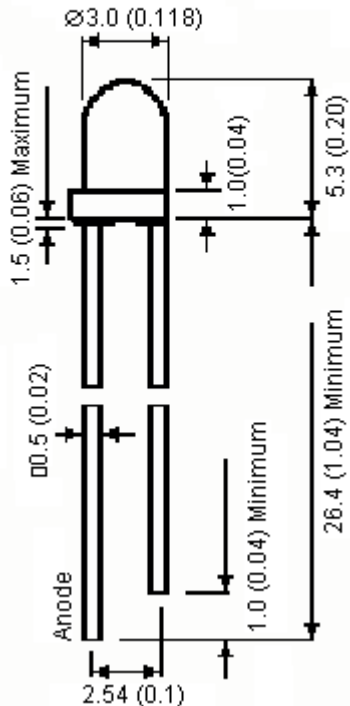


PART NO.

MCL034SRDD

REVISIONS

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



Dimensions : Millimetres (Inches)

Specifications:

Dice material : GaAlAs.
 Emitted color : Super red.
 Lens color : Red diffused.
 Peak wavelength : 660nm.
 Viewing angle : 76 degrees.
 Luminous intensity (IV) : 85mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	40	85	130	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	76	-	degrees	
Peak Emission Wavelength	• p	-	660	-	nm	-
Dominant Wavelength	• D	-	643	-		-
Spectral Line Half-Width	Δλ	-	20	-		-
Forward Voltage	VF	1.5	1.9	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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DRAWN BY:	DATE:
Veena	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

3.0mm Round LED Lamp - Red

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001180	L034SRDD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 4	



PART NO.

MCL034SRDD

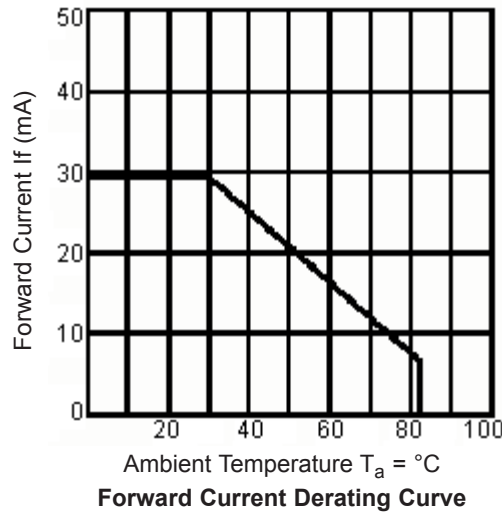
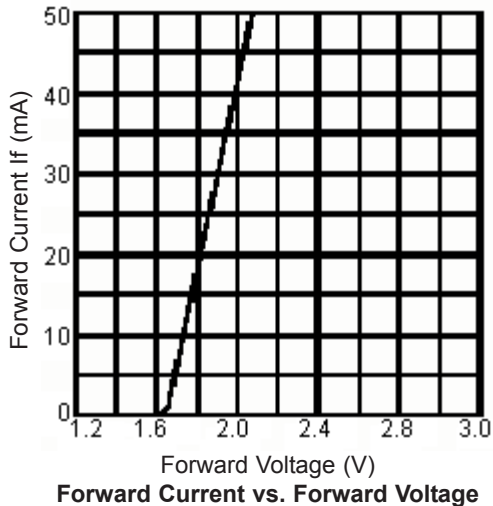
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Absolute Maximum Ratings (T_a = 25°C)

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) λP = 660nm



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APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

3.0mm Round LED Lamp - Red

SIZE A	DWG NO. M10001180	ELECTRONIC FILE L034SRDD_DWG	REV A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 2 OF 4



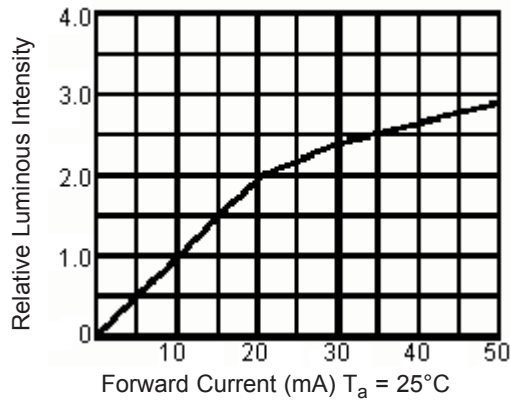
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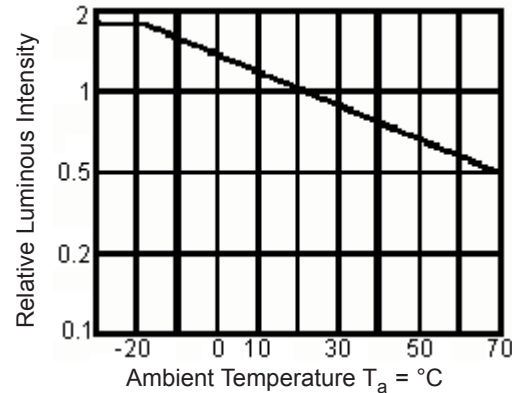
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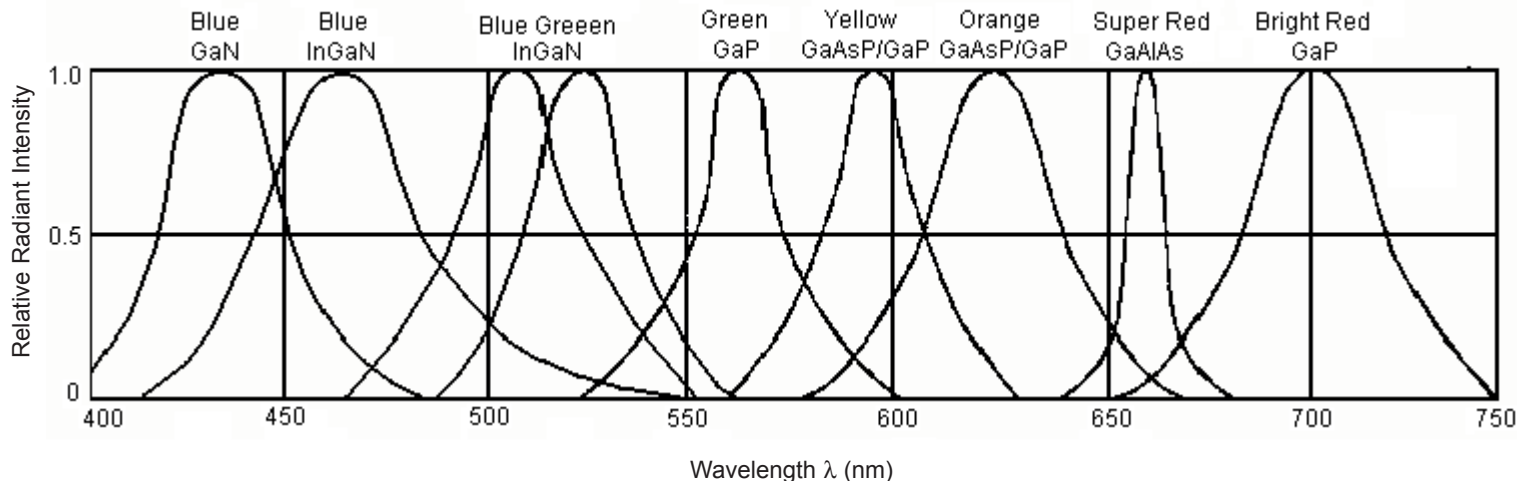
Super Red (GaAlAs) $\lambda_P = 660\text{nm}$



Luminous Intensity vs. Forward Current



Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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G.Cook	13/06/08

DRAWING TITLE:

3.0mm Round LED Lamp - Red

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10001180	L034SRDD_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 4	



PART NO.

MCL034SRDD

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Part Number Table

Description	Part Number
LED, 3mm, 70°, Red	MCL034SRDD

<http://www.farnell.com>

<http://www.newark.com>

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

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G.Cook

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29/05/08

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29/05/08

DATE:

13/06/08

DRAWING TITLE:

3.0mm Round LED Lamp - Red

SIZE **A** DWG NO.

M10001180

ELECTRONIC FILE L034SRDD_DWG

REV A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4