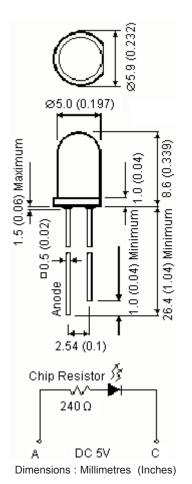


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MCL053HPD/5

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08



Specifications:

Dice material : GaP. Emitted color : Red.

Lens color : Red diffused.
Peak wavelength : 697nm.
Viewing angle : 45 degrees.
Luminous intensity (IV) : 2.8mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.3	2.8	4.2	mcd	IF = 10mA
Viewing Angle	2θ 1/2	-	45	-	degrees	IF = TOTA
Peak Emission Wavelength	• p	-	697	-		-
Dominant Wavelength	• 10	-	650	-	nm	-
Spectral Line Half-Width	Δλ	-	90	-		-
Forward Voltage	VF	1.7	2.1	2.6	V	IF = 10mA
Power Dissipation	Pd	-	-	45	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	50	-	-
Recommended Operating Current	IF (Rec)	-	10	-	mA	-

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Geetha	26/05/08
CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

5.0m	m Round	With Chip	Resistor	Built in	LED La	amp-Bright	t Rec
	ING TITLE:						

	SIZE A	DWG NO.	M10001162	· ·	TRONIC FIL IPD-5_DW			REV A	
-	SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	1	OF	4	



PART NO.

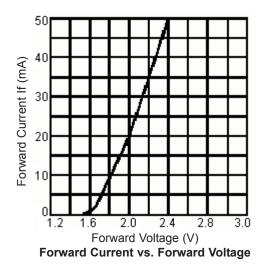
MCL053HPD/5

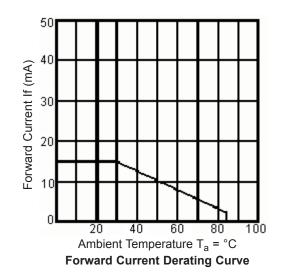
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

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

Bright Red(GaP λ P = 697nm)





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Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE:

SCALE: NTS

5.0mm Round With Chip Resistor Built in LED Lamp-Bright Red

U.O.M.: mm (Inches)

SHEET: 2

OF 4

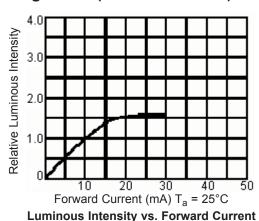


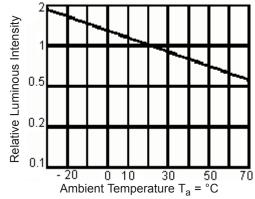
PART NO.

MCL053HPD/5

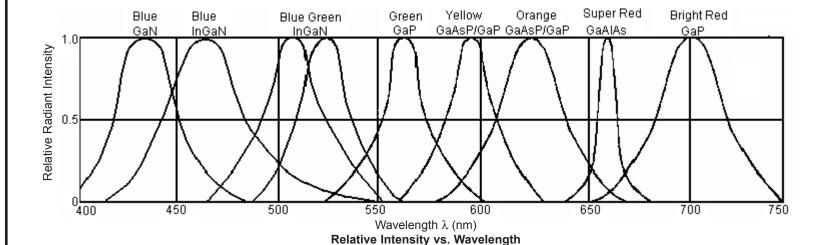
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

Bright Red (GaP λ P = 697nm)





Luminous Intensity vs. Ambient Temperature



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CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp-Bright Red

SIZE	DWG NO.	M10001162	ELECTRONIC FILE L053HPD-5_DWG				REV A
SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET:	3	OF	4



PART NO.

MCL053HPD/5

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

Part Number Table

Description	Part Number		
LED, 5mm, 5V, 36°, BRT-Red	MCL053HPD/5		

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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TOLERANCES:

DRAWN BY:	DATE:
Geetha	26/05/08
CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp-Bright Red

SIZE DWG NO. BALLOGGI ELECTRONIC FILE REV

 A
 M10001162
 ELECTRONIC FILE L053HPD-5_DWG
 A

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