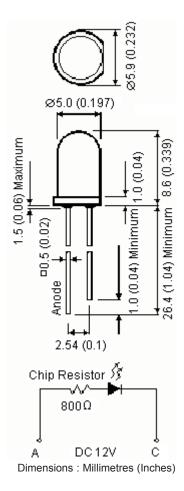
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🐢 multicomp	MCL053HPD/12	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08



### Specifications:

: GaP.
: Red.
: Red diffused.
: 697nm.
: 45 degrees.
: 2.8mcd.



# Electrical/Optical Characteristics at $T_a = 25^{\circ}C$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1.3	2.8	4.2	mcd	IF = 10mA
Viewing Angle	20 1/2	-	45	-	degrees	
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	-

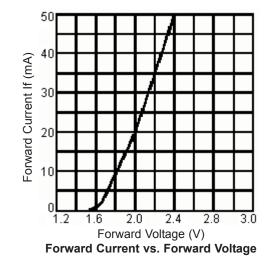
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	nformation purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with-	UNLESS OTHERWISE	Geetha	26/05/08	5.0mm Round With Chip Resistor Built in LED Lamp-Bright Red						
- t	believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the information and the suitability of the prod-	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV			
c L		DIMENSIONS ARE	Suresh	26/05/08		M10001161	L053HPD-12 DWG	A			
- L	mitted. Liability for loss or damage resulting from any reliance on the Information or ise of it (including liability resulting from negligence or where the Group was aware of he possibility of such loss or damage arising) is excluded. This will not operate to limit	PURPOSES ONLY.	APPROVED BY:	DATE:							
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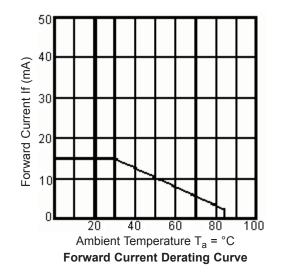
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	1	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	А	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08			
	•												

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

Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> = 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 $\lambda$ P = 697nm)





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Bright Red (GaP $\lambda$ P = 69 At the second state of the second stat	AU 50 25°C 25°C 200 10 Ambient Temp	orian GaA:	ent Ten ange	; nperature Super Red Bright Red						
400 450	Wavelength λ (nm)	,		/00 /5	J					ľ
	Relative Intensity vs. Wavel	ength								
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		-	А	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08			

#### Part Number Table

Description	Part Number
LED, 5mm, 12V, 36°, BT-Red	MCL053HPD/12

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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		CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV			
		Suresh	26/05/08		M10001161	L053HPD-12_DWG	A			
		APPROVED BY:	DATE:							
		G.Cook	10/06/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 O	DF 4			