	PART NO.		REVISIONS							
	MCL053MD	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08



#### **Specifications:** Dice material Emitted color

Viewing angle

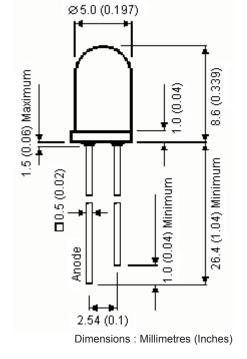
Lens color

: GaAsP on GaP. : Hi-eff red. : Red diffused. Peak wavelength : 635nm. : 45 degrees. Luminous intensity (IV) : 15mcd.



## Electrical/Optical Characteristics at T<sub>a</sub> = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	7.0	15	23	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	IF – 2011A
Peak Emission Wavelength	• p	-	635	-		-
Dominant Wavelength	• 10	-	625	-	nm	-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.6	2.0	2.6	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	-



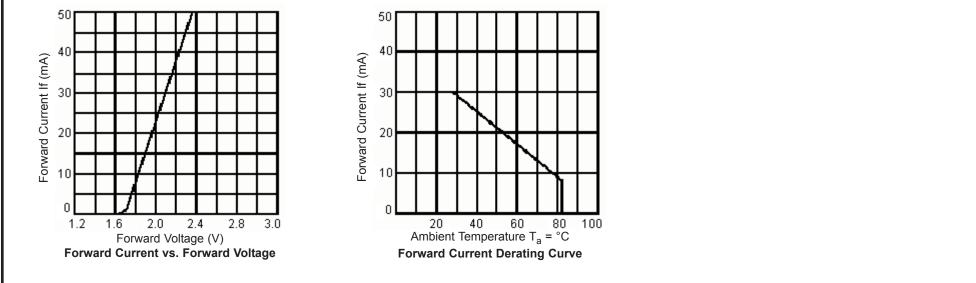
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	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV		
	DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Suresh	29/05/08	Δ	M10001170	MCL053MD DWG	A		
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	PART NO.		REVISIONS							
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	Α	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08

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

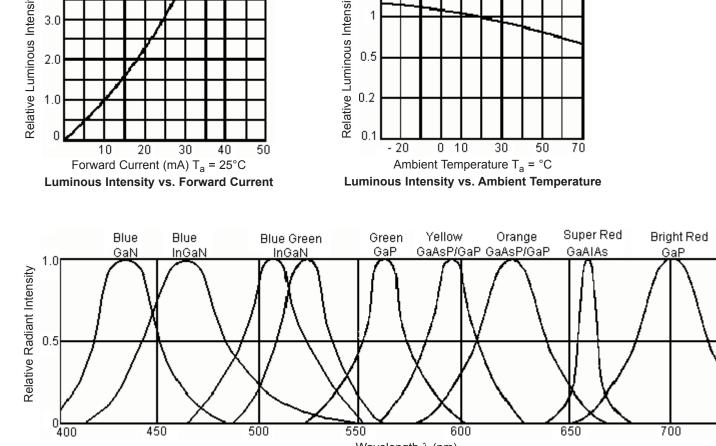
Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> = 5V)
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

## Orange (GaAsP/CaP $\lambda$ P = 635nm)



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		SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
		DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Suresh	29/05/08		M10001170	MCL053MD_DWG	A
			APPROVED BY:	DATE:				
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			REVISIONS							
			REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL053MD	-	А	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08
Orange (GaAsP/CaP λP = 635nm)										
≥ 4.0	2 2	П	ТТ							



 $\label{eq:Wavelength} \begin{array}{l} \text{Wavelength } \lambda \mbox{ (nm)} \\ \text{Relative Intensity vs. Wavelength} \end{array}$ 

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750

	PART NO.		REVISIONS								
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		-	Α	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08	

## Part Number Table

Description	Part Number
LED, 5mm, 36°, HE-Red	MCL053MD

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
	DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Suresh	29/05/08	Δ	M10001170	MCL053MD DWG	A
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