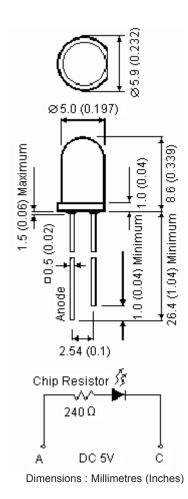
	PART NO.			REVISIONS						
	MCL053HAD/5	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	А	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08



Specifications:

Dice material Emitted color : Orange. Lens color Peak wavelength : 635nm. Viewing angle Luminous intensity (IV) : 16mcd.

: GaAsP on GaP. : Orange diffused. : 45 degrees.

Electrical/Optical Characteristics at T_a = 25°C

				1		
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	9	16	25	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	IF = 20IIIA
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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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		CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV			
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or		Suresh	29/05/08		M10001173	MCL053HAD/5_DWG	A			
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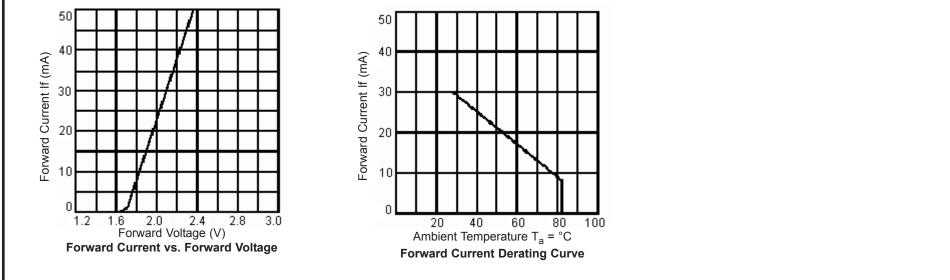


multicomp	PART NO.		REVISIONS								
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE	
		-	А	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08	

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

Reverse Voltage	5 Volt
Reverse Current	10μA (V _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

Orange (GaAsP/CaP λ P = 635nm)



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data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or		Suresh	29/05/08	Δ	V10001173	MCL053HAD/5 DWG	A		
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•	PART NO.			REVISIONS						
multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DA
	MCL053HAD/5		Α	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/
Orange (GaAsP/CaP λP	= 635nm)									
> 4.0	≥ 2									
3.0 2.0 1.0		┝╾┝╾┨								
	Land Land Land Land Land Land Land Land									
			+	+-						
	lative									
	0.1	10 30		0 70						
10 20 30 Forward Current (mA) T _a										
Luminous Intensity vs. Forw		vs. Ambie	ent Tei	nperature						
Blue Blue	Blue Green Green Yellov		ange	Super Red Bright Red						
> 1.0 GaN InGaN	InGaN GaP GaAsP	GaP GaA		P GaAlAs GaP .						
	$\land \land $	N /								
		Ι¥—	\							
	$X / \langle X $	\mathbb{N}								
Relative Radiant Intensity	$/ \times \times / /$	1								
$^{\circ}$ / / $^{\circ}$				$\Lambda \Lambda = \Lambda$						

Wavelength λ (nm) **Relative Intensity vs. Wavelength**

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

Part Number Table

Description	Part Number
LED, 5mm, 5V, 36°, Orange	MCL053HAD/5

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Rekha	29/05/08	5.0mm Round With Chip Resistor Built in LED Lamp-Orange					
		CHECKED BY:	DATE:	SIZE DWG NO.	ELEC		RONIC FILE	REV	
		Suresh	29/05/08		V10001173	MCL053HAD/5 DWG		A	
		APPROVED BY:	DATE:		U.O.M.: mm (Inches)				
		G.Cook	13/06/08	SCALE: NTS			SHEET: 4 O	F 4	