	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

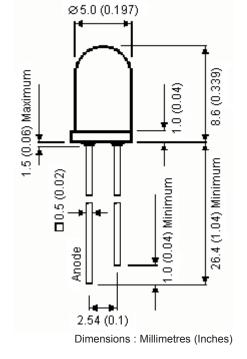
Lens color

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



Electrical/Optical Characteristics at T_a = 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	-



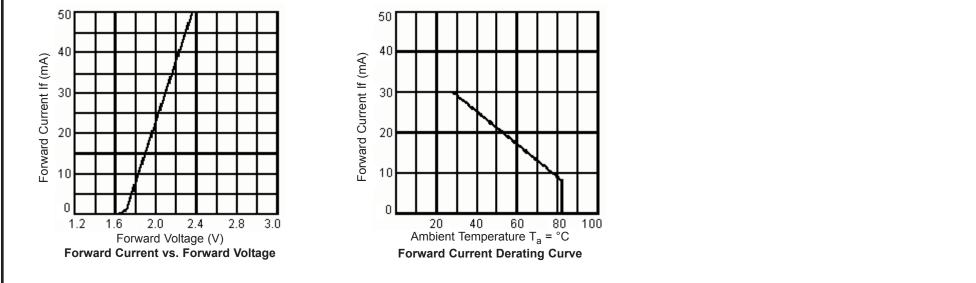
This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:					
information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with- out notice and replaces all data sheets previously supplied. The Information supplied is 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- ucts for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or	UNLESS OTHERWISE	Rekha	29/05/08	1	5.0mm Round LED Lamp - HE Red				
	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		
		APPROVED BY:	DATE:						
or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Famell plc 2008.		G.Cook	13/06/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1	OF 4		

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

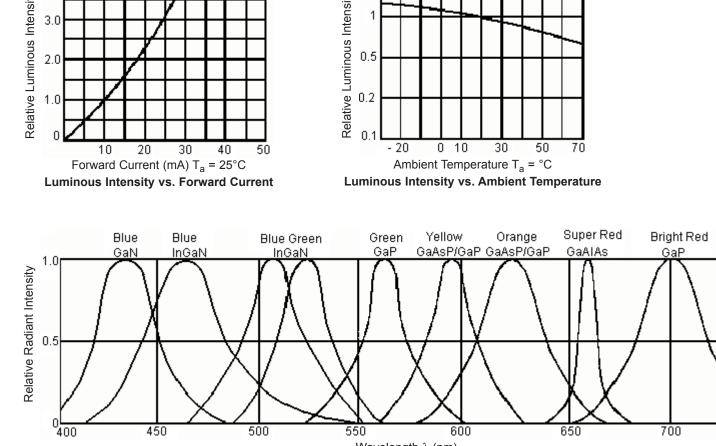
Reverse Voltage	5 Volt
Reverse Current	10μA (V _R = 5V)
Operating Temperature Range	-40°C to 85°C
Storage Temperature Range	-40°C to 100°C
Lead Soldering Temperature Range 1.6mm (1/16 inch) from body	260°C for 5 Seconds

Orange (GaAsP/CaP λ P = 635nm)



	This data sheet and its contents (the "Information") belong to the Premier Farnell Group the "Group") or are licensed to it. No licence is granted for the use of it other than for	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
i	information 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- out notice and replaces all data sheets previously supplied. The Information supplied is 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- ucts for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or	UNLESS OTHERWISE	Rekha	29/05/08	ļ	5.0mm Round LE	D Lamp - HE Red	1
		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:				
	restrict the Group's liability for damage analog is excluded. This will not operate to limit prestrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell pic 2008.	om its negligence.		13/06/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 2 OI	F 4

			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							



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

DRAWING TITLE: This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for TOLERANCES: DRAWN BY: DATE: information purposes in connection with the products to which it relates. No licence 5.0mm Round LED Lamp - HE Red 29/05/08 Rekha of any intellectual property rights is granted. The Information is subject to change with-out notice and replaces all data sheets previously supplied. The Information supplied is UNLESS OTHERWISE CHECKED BY: DATE: 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 SPECIFIED, ELECTRONIC FILE DWG NO. REV SIZE M10001170 DIMENSIONS ARE 29/05/08 data sheet should check for themselves the Information and the suitability of the prod-Suresh Α MCL053MD_DWG Α ucts for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or FOR REFERENCE use of it (including liability realing from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farrell pic 2008 APPROVED BY: DATE: PURPOSES ONLY. SHEET: 3 OF 4 SCALE: NTS U.O.M.: mm (Inches) 13/06/08 G.Cook

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

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for	TOLERANCES:	DRAWN BY:	DATE:	DRAWING TITLE:			
information 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- out notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or ormission 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- ucts for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or	UNLESS OTHERWISE	Rekha	29/05/08		5.0mm Round LE	D Lamp - HE Red	i
	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
		APPROVED BY:	DATE:				<u> </u>
or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Famell plc 2008.		G.Cook	13/06/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 O	F 4