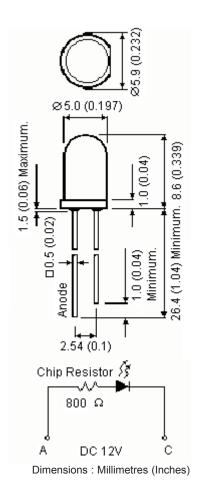


-	PΑ	R	Г١	JC

MCL053HAD/12

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



Specifications:

Dice material : GaAsP on GaP.

Emitted color : Orange. Lens color : Orange diffused.

Peak wavelength : 635nm. : 45 degrees. Viewing angle

Luminous intensity (IV) : 16mcd.



Electrical/Optical Characteristics at $T_a = 25$ °C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV 9 16		25	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	ower 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 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 without 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 products 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 use of it (including liability resulting 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 Farnell pic 2008

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, **DIMENSIONS ARE** FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Rekha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp - Orange

\dashv	••••			· · · · · · · · · · · · · · · · · · ·	90
╝	SIZE	DWG NO.	14 0004470	ELECTRONIC FILE	REV
╝	Α		M10001172	MCL053HAD/12_DWG	Α

SCALE: NTS SHEET: 1 OF 4 U.O.M.: mm (Inches)



PART NO.

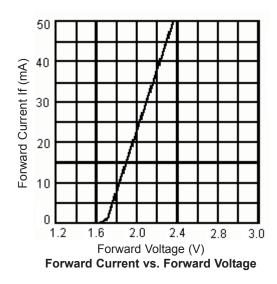
MCL053HAD/12

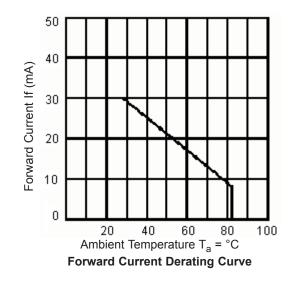
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08

Absolute Maximum Ratings ($T_a = 25$ °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 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 without 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 products 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 use of it (including liability resulting 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 negligences. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell ple 2008

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Rekha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp - Orange

_					5-
	SIZE	DWG NO.	11100011	ELECTRONIC FILE	REV
	Δ		M10001172	MCL053HAD/12 DWG	Α

SCALE: NTS U.O.M.: mm (Inches) SHEET: 2 OF 4

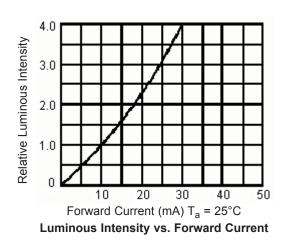


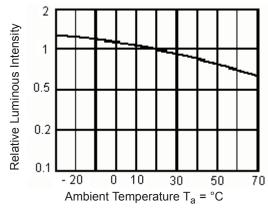
PART NO.

MCL053HAD/12

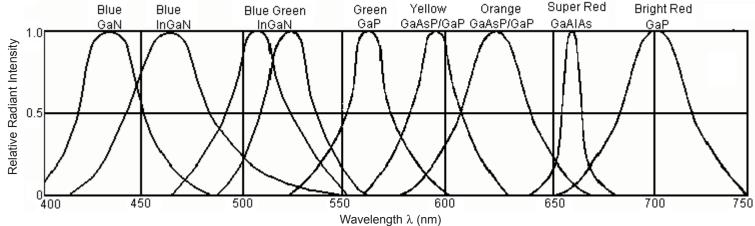
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Rekha	29/5/08	Suresh	29/5/08	G. C	13/6/08

Orange (GaAsP/CaP λ P = 635nm)





Luminous Intensity vs. Ambient Temperature



Relative Intensity vs. Wavelength

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 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 without 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 products 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 use of it (including liability resulting 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 injuny resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Rekha	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp - Orange

4	SIZE	DWG NO.	M10001172	MCL053HAD/12_DWG			vg	A
4	SCVI I	E. NTC	II O M : mm (Inches)		QUEET.	2	OE	1



PART NO.

MCL053HAD/12

	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, 12V, 36°, Orange	MCL053HAD/12		

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 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 without 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 prodtotal sheek should check for thereleves the intermination and me statistimity in the products 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 use of it (including liability resulting 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 Farnell plc 2008.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

TOLERANCES:

	DRAWN BY:	DATE:
	Rekha	29/05/08
	CHECKED BY:	DATE:
	Suresh	29/05/08
	APPROVED BY:	DATE:
	G.Cook	13/06/08

DRAWING TITLE:

5.0mm Round With Chip Resistor Built in LED Lamp - Orange

-			<u>'</u>	<u>'</u>	0
	SIZE	DWG NO.	N44 0004 4 70	ELECTRONIC FILE	REV
	Α		M10001172	MCL053HAD/12_DWG	Α

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