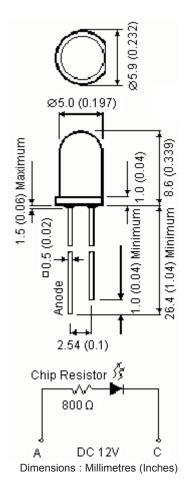


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### MCL053HYD/12

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08



# **Specifications:**

Dice material : GaAsP on GaP.

Emitted color : Yellow.

Lens color : Yellow diffused.

Peak wavelength : 587nm. Viewing angle : 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	12	15	28	mcd	IF = 20mA
Viewing Angle	20 1/2	-	45	-	degrees	1F = 2011IA
Peak Emission Wavelength	• p	-	587	-		-
Dominant Wavelength	• 10	-	590	-	nm	-
Spectral Line Half-Width	Δλ	-	35	-		-
Forward Voltage	VF	1.7	2.1	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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DRAWN BY:	DATE:
Geetha	26/05/08
CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

#### DRAWING TITLE:

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

SIZE <b>A</b>	DWG NO.	M10001163	 TRONIC FIL HYD-12_D\			REV A	!
SCAL	E: NTS	U.O.M.: mm (Inches)	SHEET:	1	OF	4	



PART NO.

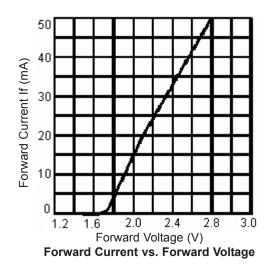
#### MCL053HYD/12

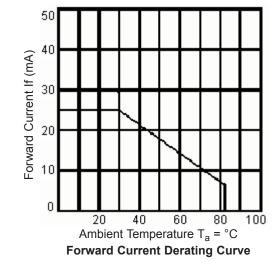
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

# Absolute Maximum Ratings ( $T_a = 25$ °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

## Yellow (GaAsP/GaP $\lambda$ P = 587nm)





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CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE:

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

SIZE A	DWG NO.	M10001163		TRONIC FIL IYD-12_D\			REV A	,
SCAL	E: NTS	U.O.M.: mm (Inches)	·	SHEET:	2	OF	4	

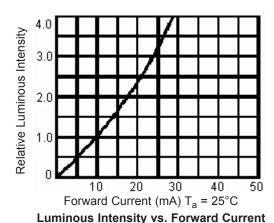


PART NO.

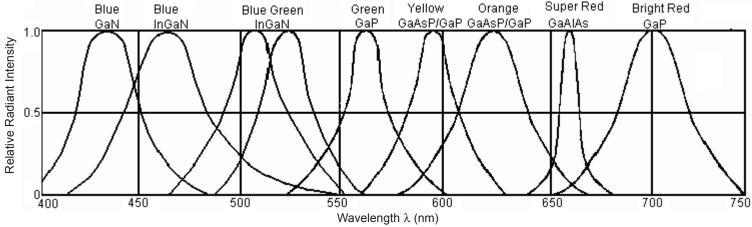
MCL053HYD/12

	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

### Yellow (GaAsP/GaP $\lambda$ P = 587nm)



**Luminous Intensity vs. Ambient Temperature** 



Relative Intensity vs. Wavelength

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Geetha	26/05/08
CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE:

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

SIZ	DWG NO.	M10001163	ELECTRONIC FILE L053HYD-12_DWG				REV A
SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	3	OF	4



PART NO.

#### MCL053HYD/12

REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	26/5/08	Suresh	26/5/08	G. C	10/6/08

#### **Part Number Table**

Description	Part Number			
LED, 5mm, 12V, 36°, Yellow	MCL053HYD/12			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

L053HYD-12\_DWG

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TOLERANCES:

DRAWN BY:	DATE:
Geetha	26/05/08
CHECKED BY:	DATE:
Suresh	26/05/08
APPROVED BY:	DATE:
G.Cook	10/06/08

DRAWING TITLE: 5.0mm Round With Chip Resistor Built in LED Lamp-Yellow **ELECTRONIC FILE** SIZE DWG NO. **REV** M10001163

SCALE: NTS U.O.M.: mm (Inches)

SHEET: 4 OF 4

Α