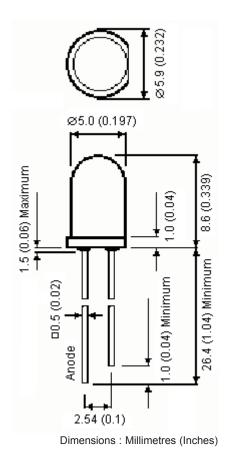


#### MCL053SBC

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08



### **Specifications:**

Dice material : AlInGaP.
Emitted color : Super amber.
Lens color : Water clear.
Peak wavelength : 610nm.
Viewing angle : 16 degrees.
Luminous intensity (IV) : 2000mcd.



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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test	
Luminous Intensity	IV	1200	2000	3000	mcd	IF = 20mA	
Viewing Angle	20 1/2	-	16	-	degrees	1F = 20MA	
Peak Emission Wavelength	• p	-	610	-		-	
Dominant Wavelength	• 10	-	605	-	nm	-	
Spectral Line Half-Width	Δλ	-	15	-		-	
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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**TOLERANCES:** 

DRAWN BY:	DATE:
Geetha	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE: 5.0m

5.0mm Round LED Lamp - Super Amber

| SIZE | DWG NO. | M10001098 | ELECTRONIC FILE | REV | L053SBC\_DWG | A | SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 4



PART NO.

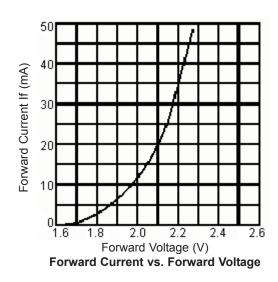
MCL053SBC

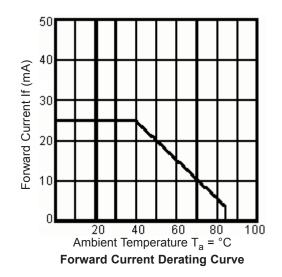
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08

# 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

# Super Amber (AllnGaP $\lambda$ P = 610nm)





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Geetha	27/05/08
CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:							
5.0mm Round LED Lamp - Super Amber							
SIZE <b>A</b>	DWG NO.	M10001098	1	TRONIC FII			REV A
SCAL	E: NTS	U.O.M.: mm (Inches)	nm (Inches)		2	OF	4

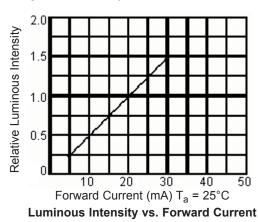


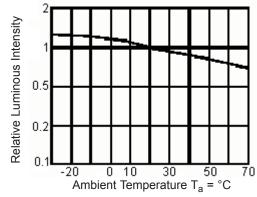
PART NO.

MCL053SBC

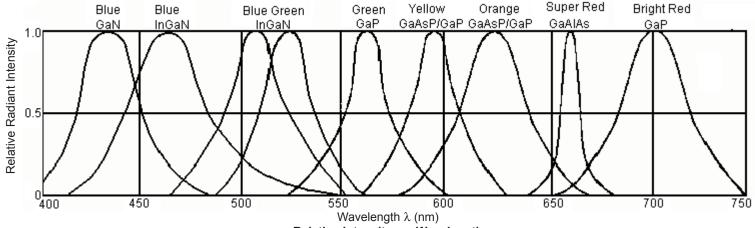
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08

### Super Amber (AllnGaP $\lambda$ P = 610nm)





**Luminous Intensity vs. Ambient Temperature** 



Relative Intensity vs. Wavelength

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CHECKED BY:	DATE:
Suresh	27/05/08
APPROVED BY:	DATE:
G.Cook	11/06/08

DRAWING TITLE:

5.0mm Round LED Lamp - Super Amber



PART NO.

MCL053SBC

		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	27/5/08	Suresh	27/5/08	G. C	11/6/08

#### **Part Number Table**

Description	Part Number
LED, 5mm, 16°, Super-Amber	MCL053SBC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	Geetha	27/05/08		
	CHECKED BY:	DATE:		
	Suresh	27/05/08		
	APPROVED BY:	DATE:		
	G.Cook	11/06/08		

DDAMINO TITLE

DRAWI	NG IIILE:	5.0mm Round LED Lan	np - Super Amber
SIZE	DWG NO.		ELECTRONIC FILE

 SIZE A
 DWG NO.
 M10001098
 ELECTRONIC FILE L053SBC\_DWG
 REV A

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