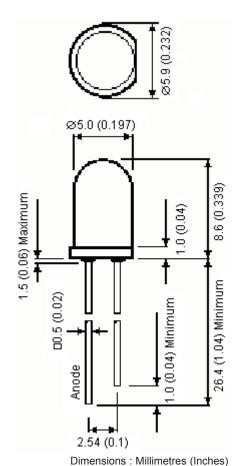


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MCL053AT

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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08
						·		



Specifications:

Dice material : GaAsP on GaP.

Emitted color : Orange.

Lens color : Orange transparent.

Peak wavelength : 635nm.
Viewing angle : 16 degrees.
Luminous intensity (IV) : 50mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	30	50	75	mcd	IF = 20mA
Viewing Angle	20 1/2	-	16	-	degrees	IF = ZUMA
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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Veena	28/05/08
CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:								
5.0mm Round LED Lamp - Orange								
SIZE A	DWG NO.	ľ	M10001177	l -	TRONIC FII AT_DWG	LE.		REV A
SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	1	OF	4	



PART NO.

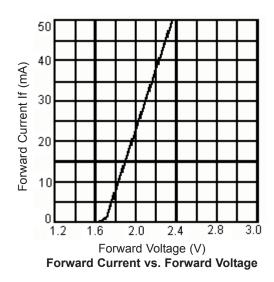
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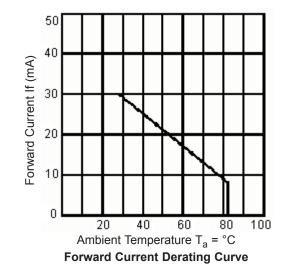
		REVISIONS						
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08

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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CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

DRAWING TITLE:								
5.0mm Round LED Lamp - Orange								
SIZE A	DWG NO.	ľ	M10001177	· ·	TRONIC FIL AT_DWG	E		REV A
SCALE: NTS			U.O.M.: mm (Inches)		SHEET:	2	OF	4

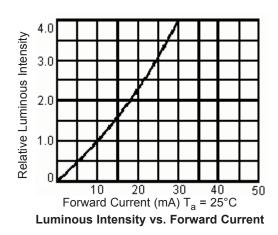


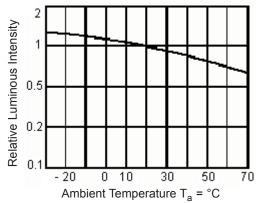
PART NO.

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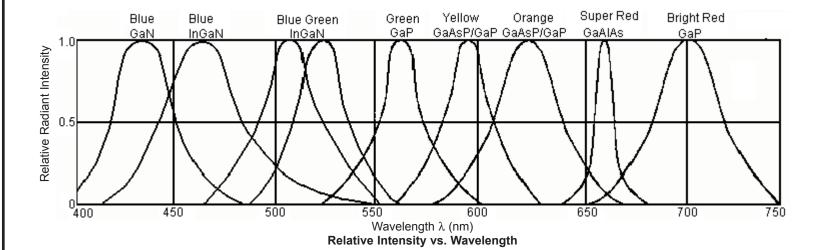
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ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08

Orange (GaAsP/CaP λ P = 635nm)





Luminous Intensity vs. Ambient Temperature



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CHECKED BY:	DATE:
Suresh	28/05/08
APPROVED BY:	DATE:
G.Cook	12/06/08

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DRAWING TITLE: 5.		5.0	0mm Round LED Lamp - Orange					
	SIZE DWG NO.		//10001177		TRONIC FILE AT_DWG		REV A	
SCALE: NTS		II O M · mm (Inches)		SHEET	3	OF	- 4	



PART NO.

MCL053AT

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ECN #	- A DESCRIPTION - A RELEASED		DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-			Veena	28/5/08	Suresh	28/5/08	G. C	12/6/08

Part Number Table

Description	Part Number			
LED, 5mm, 16°, Orange	MCL053AT			

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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CHECKED BY:	DATE:				
Suresh	28/05/08				
APPROVED BY:	DATE:				
G.Cook	12/06/08				

	DRAWING TITLE:								
5.0				Omm Round LED Lamp - Orange					
	SIZE A	DWG NO.	M10001177		ELECTRONIC FILE L053AT_DWG				REV A
SCALE: NTS				U.O.M.: mm (Inches)		SHEET:	4	OF	4