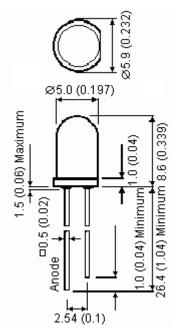


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MCL053SWC-YH1

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



Dimensions: Millimetres (Inches)

Specifications:

Dice material : InGaN.
Emitted colour : White.
Lens colour : Water clear.
Peak wavelength : Y = 0.32.
Viewing angle : 16 degrees.
Luminous intensity (IV) : 10,000mcd.



Electrical/Optical Characteristics at T_a = 25°C

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4500	10,000	15,000	mcd	IF = 20mA
Viewing Angle	2θ 1/2	-	16	-	degrees	IF - ZUITA
Peak Emission Wavelength	X	-	0.30	-		-
Dominant Wavelength	Y	-	0.32	-	nm	-
Spectral Line Half-Width	Δλ	-	-	-		-
Forward Voltage	VF	2.7	3.4	4.0	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	29/05/08
CHECKED BY:	DATE:
Suresh	29/05/08
APPROVED BY:	DATE:
G.Cook	13/06/08

	DRAWI	NG TITLE:								
	5.0mm Round LED Lamp - White									
	SIZE A	DWG NO.	ı	M10001191	I -	TRONIC FI		G	REV A	
SCALE: NTS			U O M · mm (Inches)		SHEET:	1	OF	- 4		



PART NO.

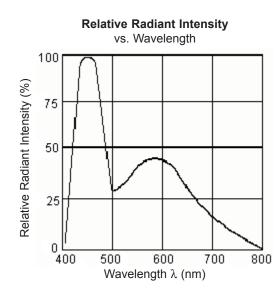
MCL053SWC-YH1

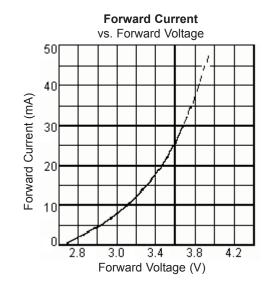
	REVISIONS							
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

Absolute Maximum Ratings ($T_a = 25$ °C)

Reverse Voltage	5 Volt
Reverse Current	10μA (V _R = 5V)
Electrostatic Discharge (ESD)	200 Volt
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

White Typical Electrical Optical Characteristics Curves ($T_a = 25^{\circ}$ C Ambient Temperature Unless Otherwise Noted)





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

	DRAWING TITLE:						
	5.0mm Round LED Lamp - White						
SIZE DWG NO. M10001191 ELECTRONIC FILE RE L053SWC-YH1_DWG A					REV A		
	SCALE: NTS		U.O.M.: mm (Inches)		SHEET:	2 0	F 4

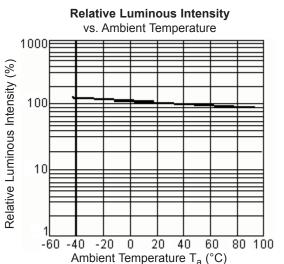


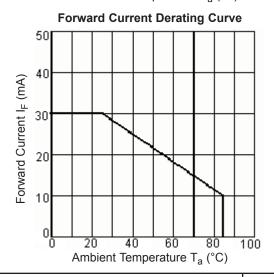
PART NO.

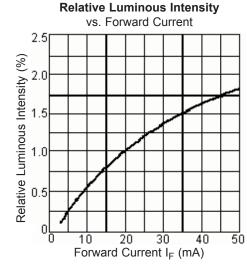
MCL053SWC-YH1

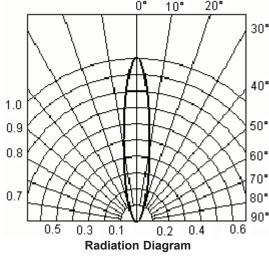
REVISIONS								
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	Α	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08

White Typical Electrical Optical Characteristics Curves ($T_a = 25^{\circ}$ C Ambient Temperature Unless Otherwise Noted)









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

[5.0mm Round LED Lamp - White								
	SIZE DWG NO. M10001191		M10001191	I -	CTRONIC FILE 3SWC-YH1_DWG			REV A	
SCALE: NTS				U.O.M.: mm (Inches)	·	SHEET:	3	OF	4



PART NO.

MCL053SWC-YH1

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

Part Number Table

Description	Part Number
LED, 5mm, 16°, White	MCL053SWC-YH1

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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

DRAWI	NG TITLE:		
		5.0mm Round LED Lan	np - White
SIZE	DWG NO		ELECTRONIC

 SIZE A
 DWG NO.
 M10001191
 ELECTRONIC FILE L053SWC-YH1_DWG
 REV A

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