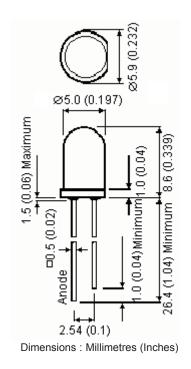
	PART NO.		REVISIONS									
🐢 multicomp	MCL053SWC-WH1	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE		
		-	А	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08		



## Specifications:

Dice material	: InGaN.
Emitted color	: White.
Lens color	: Water clear.
Peak wavelength	: Y = 0.31.
Viewing angle	: 16 degrees.
Luminous intensity (IV)	: 9000mcd.

# Electrical/Optical Characteristics at $T_a = 25^{\circ}C$

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4500	9000	13500	mcd	IF = 20mA
Viewing Angle	20 1/2	-	16	-	degrees	- IF - 2011A
Peak Emission Wavelength	Х	-	0.29	-		-
Dominant Wavelength	Y	-	0.31	-	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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info of a	mation purposes in connection with the products to which it relates. No licence ny intellectual property rights is granted. The Information is subject to change with- notice and replaces all data sheets previously supplied. The Information supplied is	UNLESS OTHERWISE	Geetha	29/05/08	] 5.0mm R	ound LED Lamp	- Pure White	
beli	voice and replaces an data sneets previously supplied. The momation supplied is aved to be accurate but the Group assumes no responsibility for its accuracy or ipleteness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
data ucts	sheet should check for themselves the Information and the suitability of the prod- for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Suresh	29/05/08		V10001190	L053SWC-WH1_DWG	A
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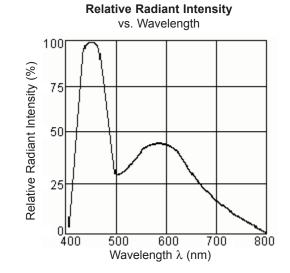


	PART NO.		REVISIONS										
🐼 multicomp		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	А	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08			

#### Absolute Maximum Ratings ( $T_a = 25^{\circ}C$ )

Reverse Voltage	5 Volt
Reverse Current	10μA (V <sub>R</sub> = 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<sub>a</sub> = 25°C Ambient Temperature Unless Otherwise Noted)



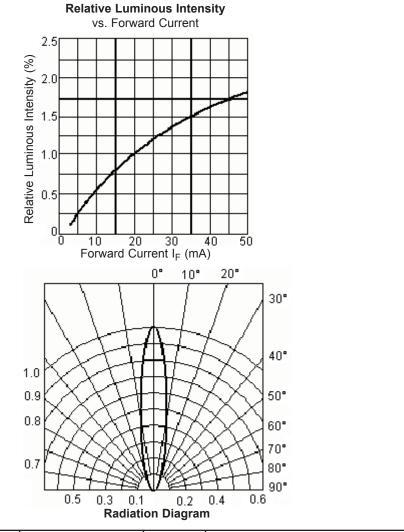
Forward Current vs. Forward Voltage

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believed	and replaces all data sheets previously supplied. The Information supplied is to be accurate but the Group assumes no responsibility for its accuracy or eness, any error in or omission from it or for any use made of it. Users of this	SPECIFIED,	CHECKED BY:	DATE:	SIZE DWG NO.		ELECTRONIC FILE	REV
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multicomp	PART NO.		REVISIONS										
	т <sup>-</sup> Г	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
		-	А	RELEASED	Geetha	29/5/08	Suresh	29/5/08	G. C	13/6/08			

#### White Typical Electrical Optical Characteristics Curves (T<sub>a</sub> = 25°C Ambient Temperature Unless Otherwise Noted)

**Relative Luminous Intensity** vs. Ambient Temperature 1000 Relative Luminous Intensity (%) 100 10 60 80 100 Ambient Temperature T<sub>a</sub> (°C) Forward Current Derating Curve 50 40 Forward Current I<sub>F</sub> (mA) 30 20 10 ٥Ļ 40 60 80 20 100 Ambient Temperature T<sub>a</sub> (°C)



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1	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 with-	UNLESS OTHERWISE	Geetha	29/05/08		5.0mm R	ound LED Lamp	- Pur	e White	
	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	SPECIFIED,	CHECKED BY:	DATE:	SIZE	DWG NO.		ELEC	TRONIC FILE	REV
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	PART NO.		REVISIONS										
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#### Part Number Table

Description	Part Number
LED, 5mm, 16°, Pure White	MCL053SWC-WH1

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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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 with-	UNLESS OTHERWISE	Geetha	29/05/08	5.0mm Re	ound LED Lamp	- Pure White	
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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.	nal injury resulting from its negligence.		13/06/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 O	0F 4