	MCL053SBLC		REVISIONS										
🐼 multicomp			REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
			А	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08			

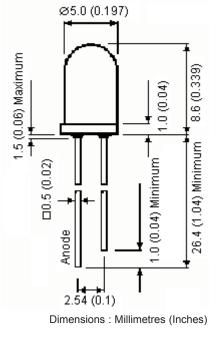


Specifications:

Dice material	: InGaN.
Emitted color	: Super blue.
Lens color	: Water clear.
Peak wavelength	: 470nm.
Viewing angle	: 16 degrees.
Luminous intensity (IV)	: 2500mcd.

D E





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

Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	-	2500	-	mcd	IF = 20mA
Viewing Angle	20 1/2	-	16	-	degrees	IF – 2011A
Peak Emission Wavelength	• p	-	470	-		-
Dominant Wavelength	• 10	-	472	-	nm	-
Spectral Line Half-Width	Δλ	-	45	-		-
Forward Voltage	VF	1.7	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	-

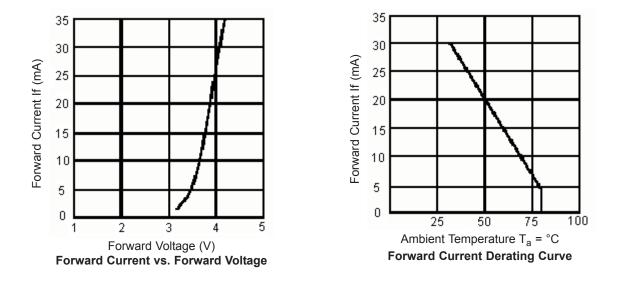
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information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change with-	UNLESS OTHERWISE	Veena	25/06/08]	5.0mm Round LED	Lamp -	 Super Blu 	e
out notice and replaces all data sheets previously supplied. The Information supplied is 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.		ELECTR	RONIC FILE	REV
data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Suresh	25/06/08	Δ	M10001261	L053SBLC_DWG		A
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🐵 multicomp			REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE			
	MCL053SBLC	-	A	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08			

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

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

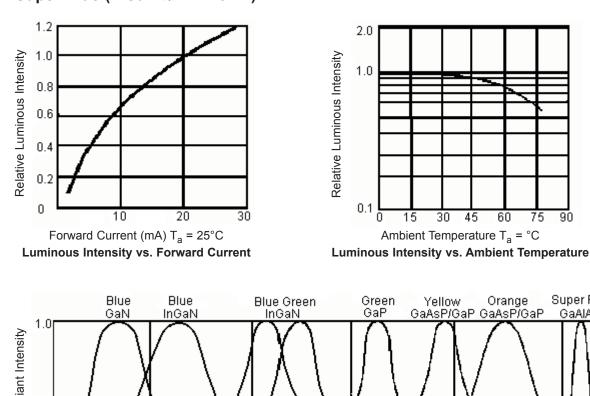
Super Blue (InGaN $\lambda P = 470$ nm)



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data sheet should check for themselves the Information and the suitability of the prod- ucts for their purpose and not make any assumptions based on information included or	DIMENSIONS ARE FOR REFERENCE	Suresh	25/06/08	Δ	M10001261	L053SBLC DWG	Α
childred Elability for loop of damage foodlang formally follarios of the information of	PURPOSES ONLY.	APPROVED BY:	DATE:				
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PART NO.				REVISIONS						
multicomp	-	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	MCL053SBLC	-	А	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08
Super Blue (InGaN λP = 470nm)										

90



Super Red GaAIAS Bright Red Yellow Orange GaAsP/GaP GaAsP/GaP GaP Relative Radiant Intensity 0.5 0 450 500 650 750 400 550 600 700 Wavelength λ (nm) Relative Intensity vs. Wavelength

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believe	tice and replaces all data sheets previously supplied. The Information supplied is ed to be accurate but the Group assumes no responsibility for its accuracy or eteness, 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
data s ucts fo	heet should check for themselves the Information and the suitability of the prod- or their purpose and not make any assumptions based on information included or	DIMENSIONS ARE	Suresh	25/06/08	Δ		M10001261	L053S	BLC DWG		А
use of	d. Liability for loss or damage resulting from any reliance on the Information or it (including liability resulting from negligence or where the Group was aware of ssibility of such loss or damage arising) is excluded. This will not operate to limit	PURPOSES ONLY.	APPROVED BY:	DATE:				I	_		
or rest	submity of such rouss of carriage ansing) is excluded. This with not operate to initi- rict the Group's liability for death or personal injury resulting from its negligence. IULTICOMP is the registered trademark of the Group, © Premier Farnell pic 2008.		G.Cook	10/07/08	SCAL	E: NTS	U.O.M.: mm (Inches)		SHEET: 3	OF	- 4

	PART NO.		REVISIONS											
🔊 multicomp			REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE				
	MCL053SBLC	-	А	RELEASED	Veena	25/6/08	Suresh	25/6/08	G. C	10/7/08				

Part Number Table

Description	Part Number
LED, 5mm, 16°, Super-Blue	MCL053SBLC

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	Veena	25/06/08		5.0mm Round LED Lamp - Super Blue		
		CHECKED BY:	DATE:	SIZE DWG NO.	M10001261	ELECTRONIC FILE	REV A
		Suresh	25/06/08	Α			
		APPROVED BY:	DATE:				<u> </u>
		G.Cook	10/07/08	SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 4 O	DF 4