

LED

Pure White, 5mm



Specifications:

Dice material	: InGaN
Emitted colour	: White
Lens colour	: Water Clear
Peak wavelength	: $\lambda = 0.31$
Viewing angle	: 16°
Luminous intensity (IV)	: 9,000mcd

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

Reverse Voltage	5V
Reverse Current	10 μ A ($V_R = 5V$)
Electrostatic Discharge (ESD)	200V
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

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

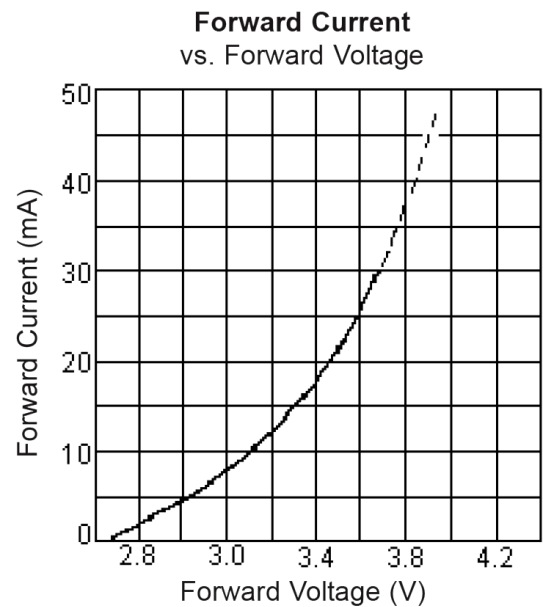
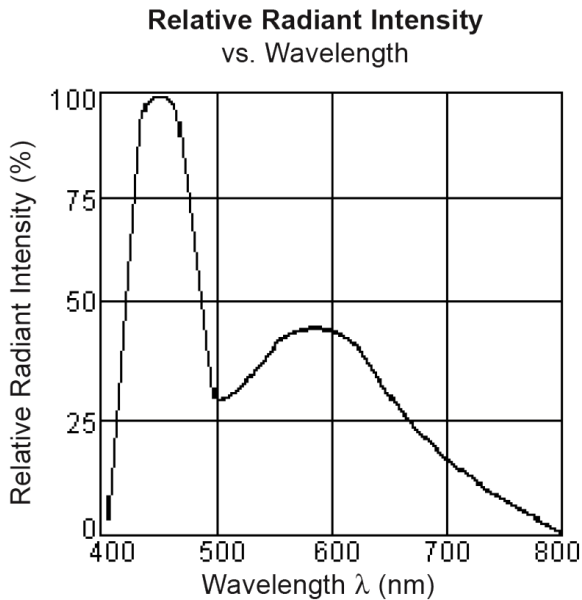
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	4,500	9,000	13,500	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	16	-	degrees	
Peak Emission Wavelength	X	-	0.29	-	nm	-
Dominant Wavelength	Y	-	0.31	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	-	-		-
Forward Voltage	VF	2.7	3.4	4	V	IF = 20mA
Power Dissipation	Pd	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1KHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

LED

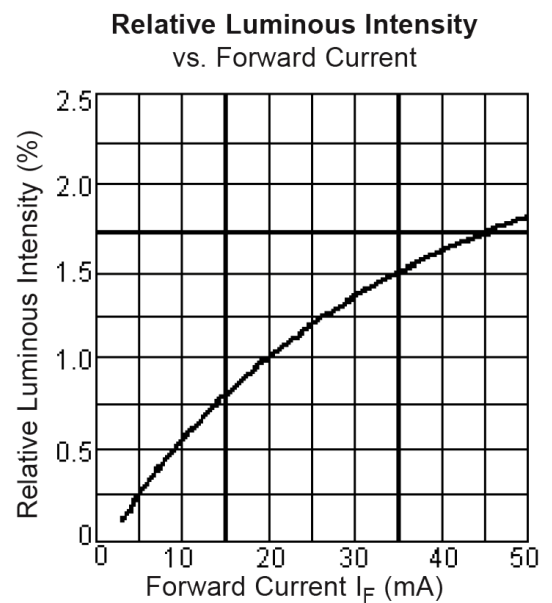
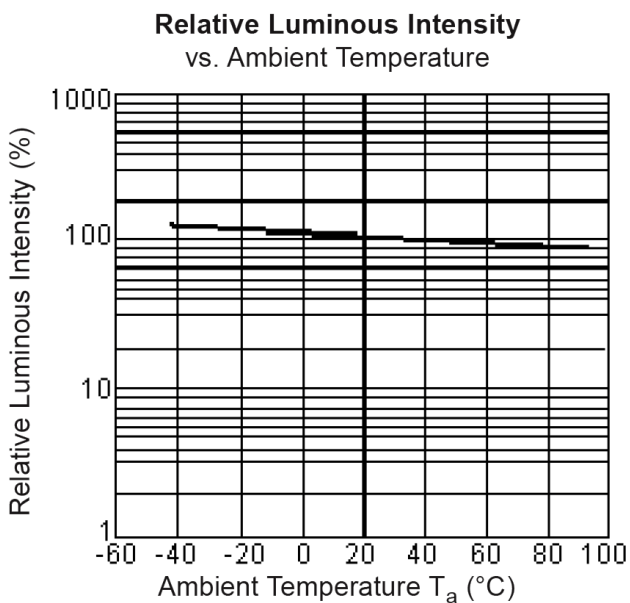
Pure White, 5mm



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

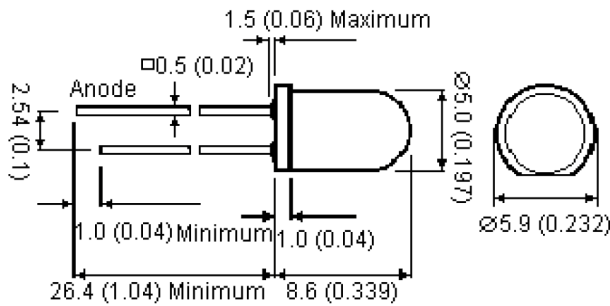
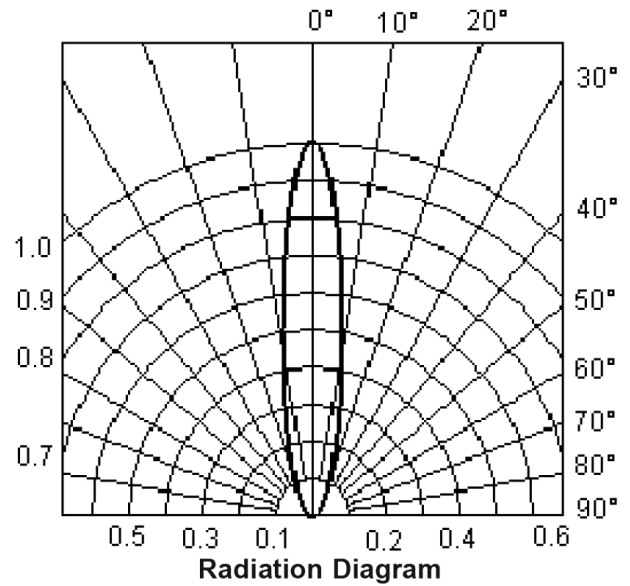
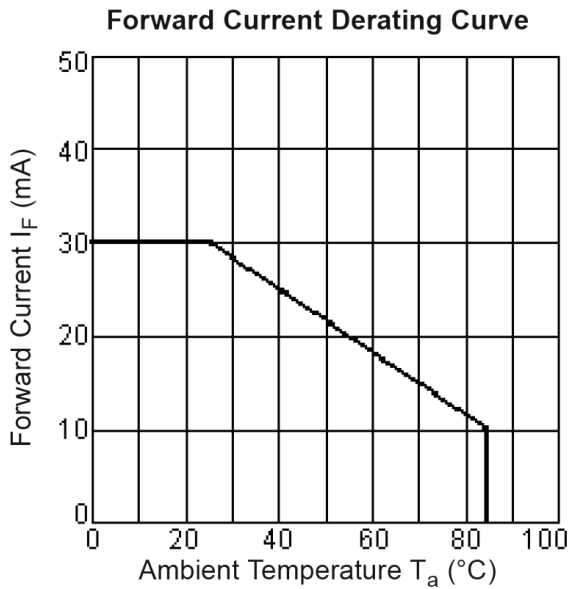


White Typical Electrical Optical Characteristics Curves ($T_a = 25^\circ\text{C}$ Ambient Temperature Unless Otherwise Noted)



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Pure White, 5mm



Dimensions : Millimetres (Inches)

Part Number Table

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

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