

Round LED Lamp

Ultra Green, 5mm



RoHS
Compliant



Specifications:

Dice Material	: InGaN
Emitted Colour	: Ultra Green
Lens Colour	: Water Clear
Peak Wavelength	: 525nm
Viewing Angle	: 16°
Luminous Intensity (IV)	: 9500mcd

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

Reverse Voltage	5V
Reverse Current	10 μ A ($V_R = 5V$)
Electrostatics 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") from body	260°C for 5 Seconds

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

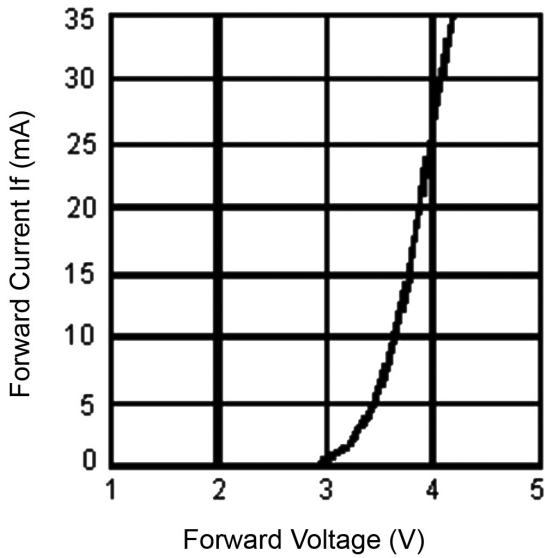
Parameter	Symbol	Minimum	Typical	Maximum	Unit	Test
Luminous Intensity	IV	1,450	4,500	9,500	mcd	IF = 20mA
Viewing Angle	2 θ 1/2	-	16	-	degrees	
Peak Emission Wavelength	λ_P	-	525	-	nm	-
Dominant Wavelength	λ_D	-	527	-		-
Spectral Line Half-Width	$\Delta\lambda$	-	36	-		-
Forward Voltage	V _F	2.7	3.4	4	V	IF = 20mA
Power Dissipation	P _d	-	-	85	-	-
Peak Forward Current (Duty 1/10 at 1kHz)	IF (Peak)	-	-	100	-	-
Recommended Operating Current	IF (Rec)	-	20	-	mA	-

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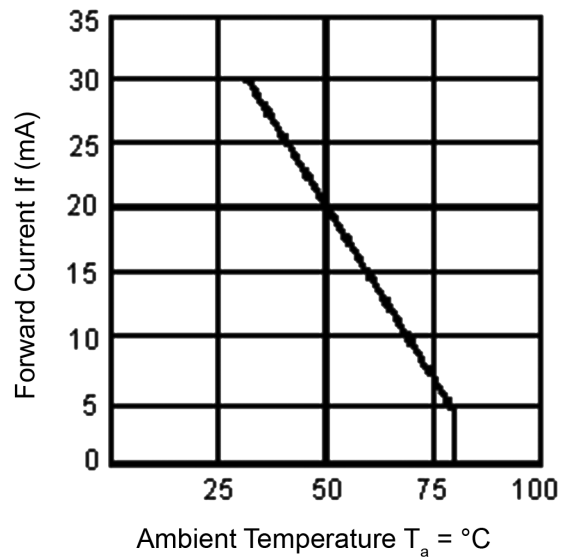
Ultra Green, 5mm



Ultra Green (InGaN $\lambda_P = 525\text{nm}$)

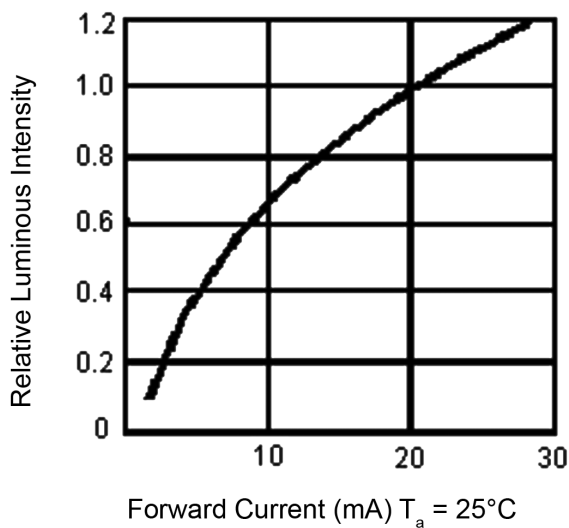


Forward Current vs. Forward Voltage

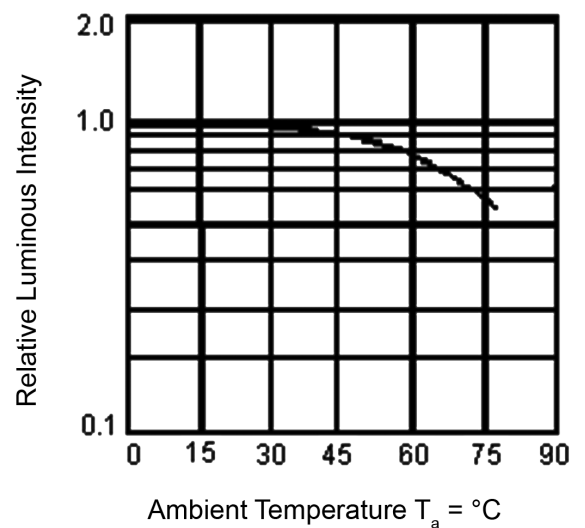


Forward Current Derating Curve

Bright Red (GaP $\lambda_P = 697\text{nm}$)



Luminous Intensity vs. Forward Current

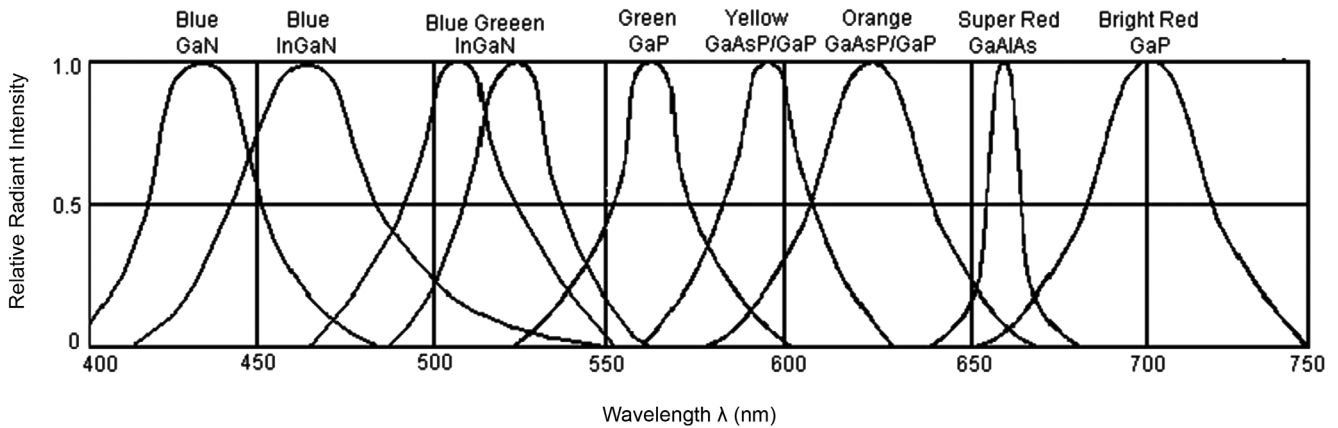


Luminous Intensity vs. Ambient Temperature

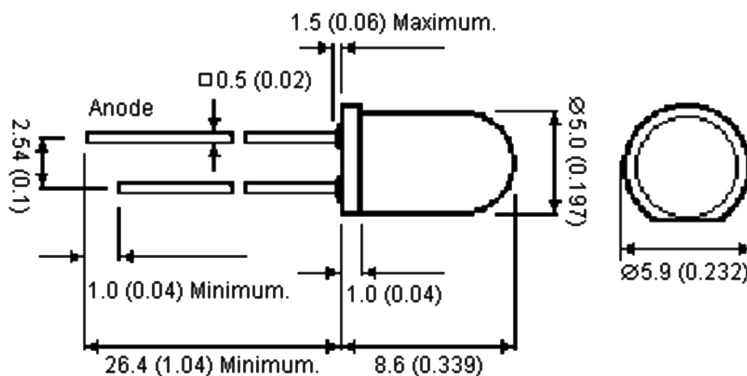


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Relative Intensity vs. Wavelength



Dimensions : Millimetres (Inches)

Part Number Table

Description	Part Number
LED, 5mm, 16°, Ultra-Green	MCL053UGC

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