

**Feature**

- § Low Power Consumption
- § High Intensity
- § I.C. compatible

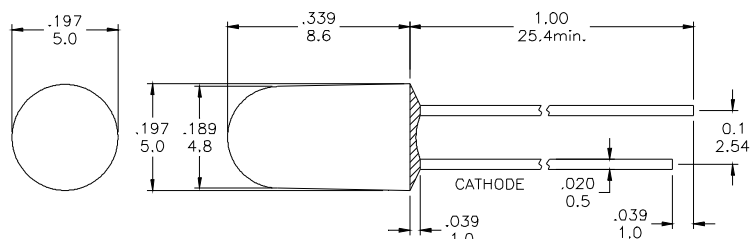
**Applications**

- § Commercial Outdoor Sign Board
- § Front Panel Indicator
- § Dot-Matrix Module
- § Automotive
- § LED Bulb

**Description**

- § These High Intensity LEDs are Based on InGaN/Sapphire Material Technology
- § Emitted color:Blue
- § Blue Diffusion Lens

**Package Dimension**



\* Tolerance :  $\pm \frac{0.01}{0.25}$  Unit :  $\pm \frac{\text{inch}}{\text{mm}}$

**Absolute Maximum Ratings at Ta=25°C**

Symbol	Parameter	Max.	Unit
PD	Power Dissipation	100	mW
VR	Reverse Voltage	5	V
IAF	Average Forward Current	20	mA
IPF	Peak Forward Current (Duty=0.1, 1kHz)	85	mA
—	Derating Linear Form 25°C	0.4	mA/°C
Topr	Operating Temperature Range	-40 to + 80	°C
Tstg	Storage Temperature Range	-40 to + 100	°C
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.			

**Electrical / Optical Characteristics and Curves at Ta=25°C**

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		3.5	4.0	V
IR	Reverse Current	VR= 5 V			100	μ A
$\Delta \theta$	Half Intensity Angle	IF= 20 mA		60		Deg.
IV	Luminous Intensity	IF= 20 mA		1500		mcd.
$\lambda d$	Dominant Wavelength	IF= 20 mA		470		nm



### Electrical Characteristics at Ta=25°C

Symbol	I <sub>v</sub>		V <sub>F</sub>		λ D	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
	Grade	Range	Grade	Range	Grade	Range
	BIN 16	950~1300	P1	3.0~3.2	B5	460~465
	BIN 17	1300~1800	P2	3.2~3.4	B6	465~470
			P3	3.4~3.6	B7	470~475
			P4	3.6~3.8		
			P5	3.8~4.0		

Intensity: Tolerance of minimum and maximum = ± 15%

V<sub>f</sub>: Tolerance of minimum and maximum = ± 0.05v

NOTE:

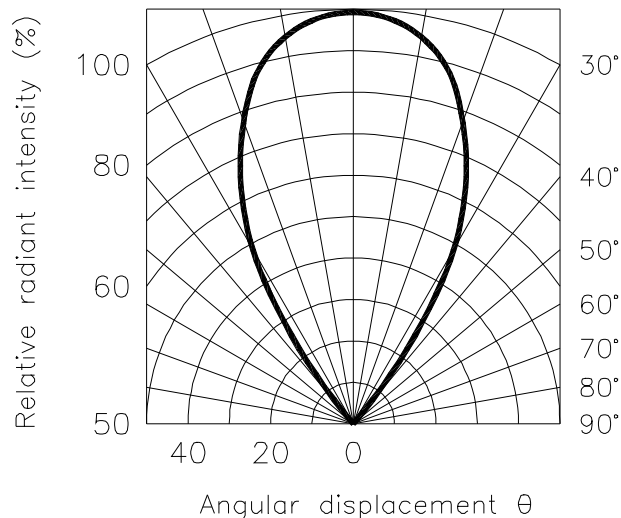
1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.
2. Specific binning requirements –please contact our home office

### Radiation Diagram

**IF=20 mA 50% Power Angle Angle =60°**

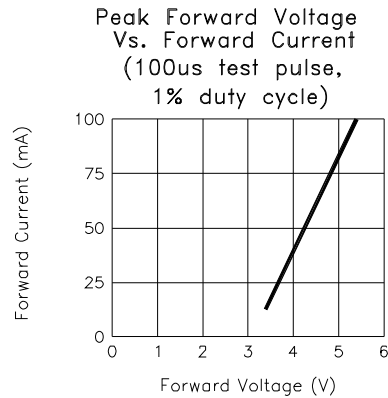
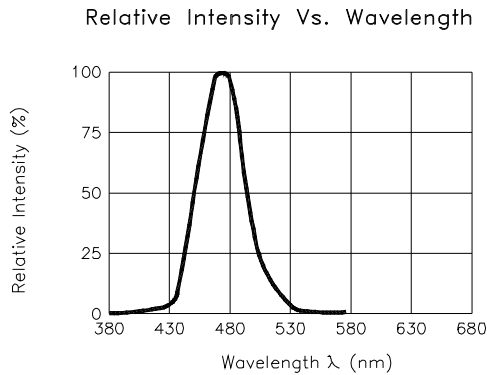
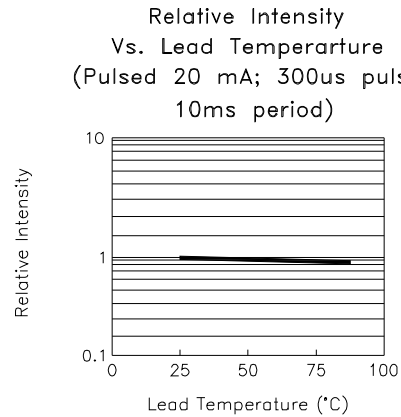
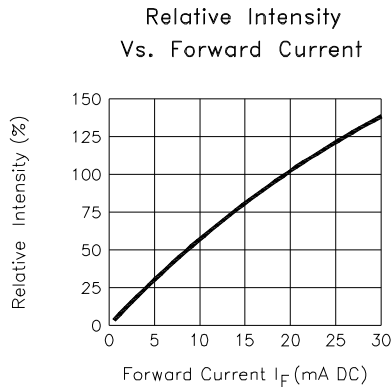
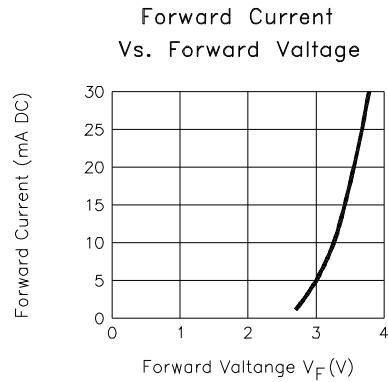
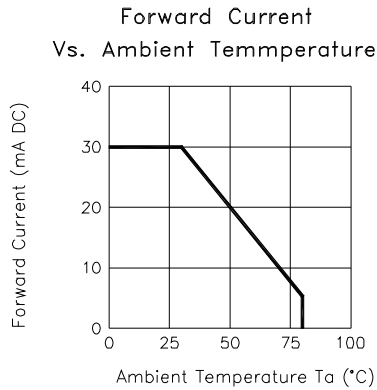
Radiation Diagram

0 10° 20°



# BLUE

## Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)



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