SUPERBRIGHT LED LAMP

VAOL-5GSBY4

Feature

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

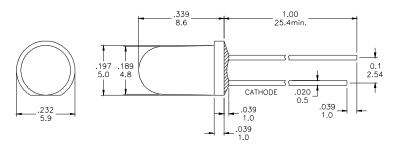
Applications

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

Description

- § These High Intensity LEDs are Based on InGaN/(ITO)Sapphire Material Technology
- § Emitted color:Blue
- **§** Water Transparent Lens

Package Dimension



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

Absolute Maximum Ratings at Ta=25℃

Symbol	Parameter	Max.	Unit			
PD	Power Dissipation	120	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	$^{\circ}\! \mathbb{C}$			
Tstg	Storage Temperature Range	-40 to + 100	$^{\circ}\! \mathbb{C}$			
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.						

Electrical / Optical Characteristics and Curves at $Ta=25^{\circ}C$

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		3.5	4.0	V
IR	Reverse Current	VR = 5 V			50	μ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		30		Deg.
IV	Luminous Intensity	IF= 20 mA		7000		mcd.
λd	Dominant Wavelength	IF= 20 mA		470		nm





Electrical Characteristics at Ta=25°C

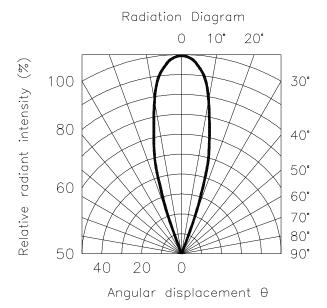
2100011001 0110110011000 00 10 20 0									
Symbol	Iv		V _F		λD				
Parameter	Lumi	Luminous Intensity		Forward Voltage		Dominant Wavelength			
Condition	IF=20mA		IF=20mA		IF=20mA				
Unit		mcd V		nm					
	Grade	Range	Grade	Range	Grade	Range			
	BIN 21	4900~6900	P1	3.0~3.2	В6	465~470			
	BIN 22	6900~9700	P2	3.2~3.4	В7	470~475			
Binning			P3	3.4~3.6					
			P4	3.6~3.8					
			P5	3.8~4.0					

Intensity: Tolerance of minimum and maximum = \pm 15% Vf: Tolerance of minimum and maximum = \pm 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 =30°

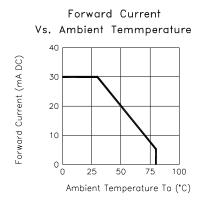


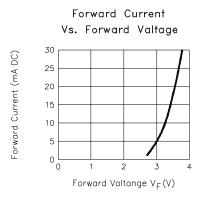


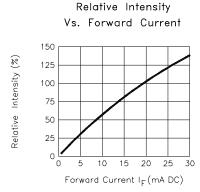


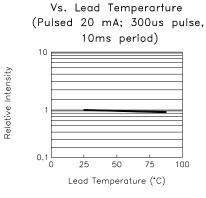
BLUE

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

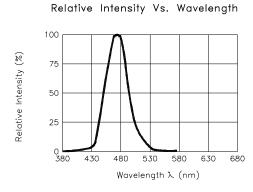


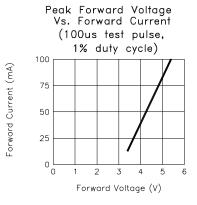






Relative Intensity









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