

SUPERBRIGHT LED LAMP

VAOL-5701SBY4

.039 1.0

Feature

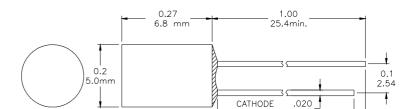
- § Low Power Consumption
- **§** High Intensity
- § I.C. compatible

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
- **§** Water Transparent Lens



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

Package Dimension

Absolute Maximum Ratings at Ta=25℃

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	$^{\circ}$			
Tstg	Storage Temperature Range	-40 to + 100	$^{\circ}$			
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			100	μ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		100		Deg.
IV	Luminous Intensity	IF= 20 mA		1000		mcd.
λd	Dominant Wavelength	IF= 20 mA		470		nm





Electrical Characteristics at Ta=25°C

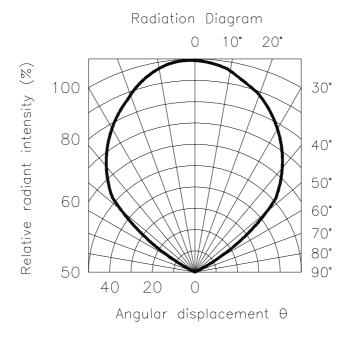
Symbol		Iv		VF		λD
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	,					
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
	Grade	Range	Grade	Range	Grade	Range
	BIN15	680~950	P0	2.8~3.0	B5	460~465
	BIN16	950~1300	P1	3.0~3.2	В6	465~470
			P2	3.2~3.4	В7	470~475
			Р3	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 =100°

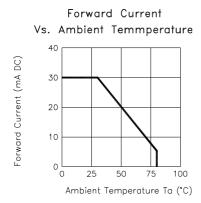


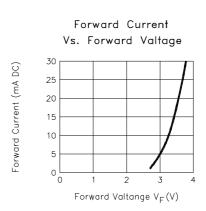


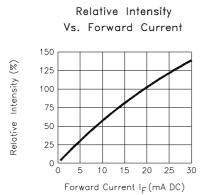


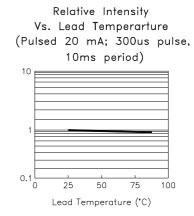
BLUE

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









Relative Intensity

