

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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SUPERBRIGHT LED LAMP

VAOL-5GWY4

Feature

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

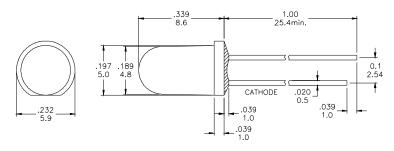
Applications

- 88888 Commercial Outdoor Sign Board
- Front Panel Indicator
- **Dot-Matrix Module**
- LED Bulb

Description

- These High Intensity LEDs are Based on InGaN/Sapphire Material Technology
- Emitted color: White
- Water Transparent Lens

Package Dimension



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

Absolute Maximum Ratings at Ta=25℃

Symbol	Parameter	Max.	Unit		
PD	Power Dissipation	150	mW		
VR	Reverse Voltage 5		V		
IAF	Average Forward Current	30	mA		
IPF	Peak Forward Current (Duty=0.1, 1kHz)	100	mA		
	Derating Linear Form 25°C	0.4	mA/°C		
Topr	Operating Temperature Range	-40 to +80	${}^{\sim}$		
Tstg	Storage Temperature Range	-40 to + 100	${\mathbb C}$		
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.	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.
X	Chromaticity	IF= 20 mA		0.26		
Y	Coordination	IF= 20 mA		0.26		





Electrical Characteristics at Ta=25°C

Symbol		Iv	VF		λD	
Parameter	Luminous Intensity		Forward Voltage		Dominant Wavelength	
Condition	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
	Grade	Range	Grade	Range	Grade	Range
	BIN21	4900~6900	P0	2.8~3.0	WA	Bluish White
	BIN22	6900~9700	P1	3.0~3.2	WB	Pure White
Binning			P2	3.2~3.4	WC	White
			P3	3.4~3.6	WD	Yellowish White
			P4	3.6~3.8		
			P5	3.8~4.0		

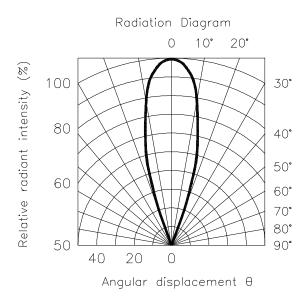
Intensity: Tolerance of minimum and maximum = $\pm 15\%$ Vf: Tolerance of minimum and maximum = $\pm 0.05v$

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°

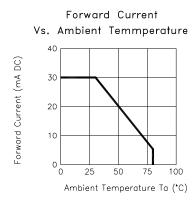


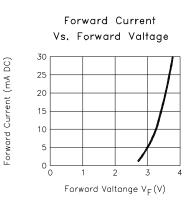


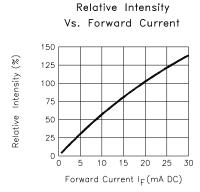


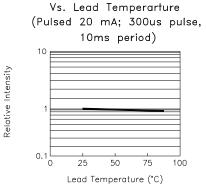
WHITE

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









Relative Intensity

