



## **LED LAMP**

### **VAOL-5LDE2**

#### **Feature**

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

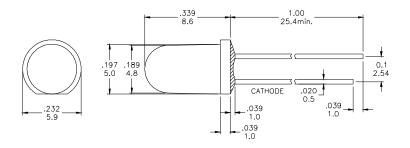
## **Applications**

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

## **Description**

- § These LEDs are Based on GaP/GaP Material Technology
- § Emitted color:Green
- § Green Diffusion Lens

## **Package Dimension**



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

# Absolute Maximum Ratings at Ta=25℃

Symbol	Parameter	Max.	Unit		
PD	Power Dissipation	100	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	-20 to +80	${\mathcal C}$		
Tstg	Storage Temperature Range	-20  to + 100	${\mathcal C}$		
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.					

# Electrical / Optical Characteristics and Curves at Ta=25℃

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		2.2	2.8	V
IR	Reverse Current	VR = 5 V			100	$\mu$ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		60		Deg.
IV	Luminous Intensity	IF= 20 mA		50		mcd.
λd	Dominant Wavelength	IF= 20 mA		570		nm





## Electrical Characteristics at Ta=25°C

Symbol		Iv		V <sub>F</sub>		λD	
Parameter	Luminous Intensi		Forward Voltage		Dominant Wavelength		
Condition	IF=20mA		IF=20mA		IF=20mA		
Unit		mcd	V		nm		
	Grade	Range	Grade	Range	Grade	Range	
		50	С	1.9~2.0	G9	569~571	
			D	2.0~2.1	G10	571~573	
Binning			Е	2.1~2.2	G11	573~575	
			F	2.2~2.3			
			G	2.3~2.4			

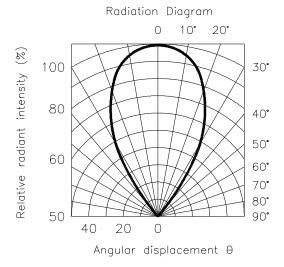
Intensity: Tolerance of minimum and maximum =  $\pm$  15% Vf: Tolerance of minimum and maximum =  $\pm$  0.05v

#### 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 = $60^{\circ}$







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

