

VAOL-3GCE4

#### **Feature**

- Low Power Consumption
- I.C. compatible

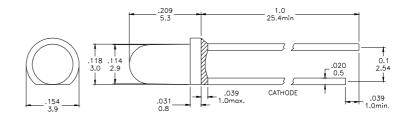
#### **Applications**

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

#### **Description**

- These LEDs are Based on GaAsP/GaP
- Material Technology
- Emitted color:Yellow
- Water Transparent Lens

## **Package Dimension**



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

## Absolute Maximum Ratings at Ta=25℃

Symbol	Parameter	Max.	Unit		
PD	Power Dissipation	120	mW		
VR	Reverse Voltage	5	V		
IAF	Average Forward Current	30	mA		
IPF	Peak Forward Current (Duty=0.1, 1kHz)	100	mA		
_	Derating Linear Form 25°C	0.4	mA / °℃		
Topr	Operating Temperature Range	-40 to + 85	$^{\circ}\!\mathbb{C}$		
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℃

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Unit
VF	Forward Voltage	IF= 20 mA		1.8	2.0	V
IR	Reverse Current	VR = 5 V			50	$\mu$ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		30		Deg.
IV	Luminous Intensity	IF= 20 mA		150		med.
λd	Dominant Wavelength	IF= 20 mA		590		nm





#### Electrical Characteristics at Ta=25°C

Symbol		Iv	VF		λD	
Parameter	Lum	inous Intensity	Forward Voltage		Dominant Wavelength	
Condition	I	F=20mA	IF=20mA		IF=20mA	
Unit	med		V		nm	
	Grade	Range	Grade	Range	Grade	Range
			A	1.7~1.8	Y3	587~589
Binning			В	1.8~1.9	Y4	589~591
Diminig			C	1.9~2.0	Y5	591~593

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

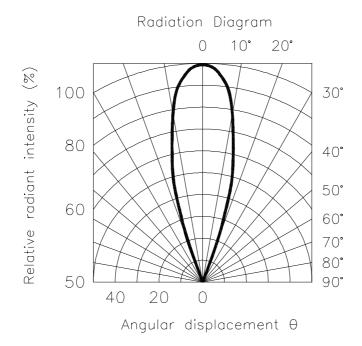
Vf: Tolerance of minimum and maximum =  $\pm 0.05$ v

#### 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 = $30^{\circ}$ 

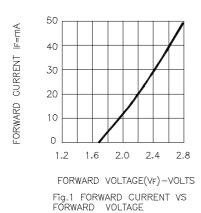


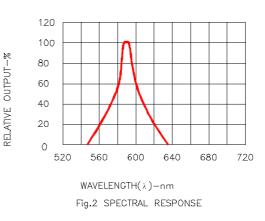


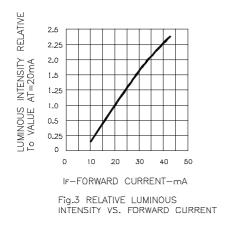


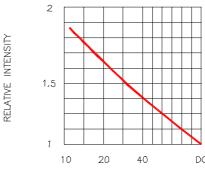
## **YELLOW**

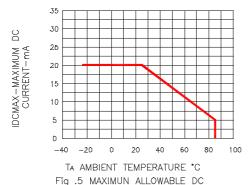
# Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)



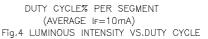


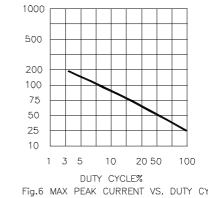


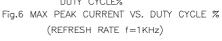




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