

VAOL-3LCE2

Feature

- Low Power Consumption
- I.C. compatible

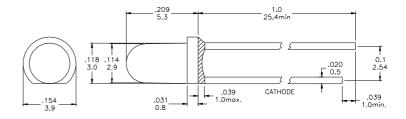
Applications

- 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
- Yellow Diffusino Lens

Package Dimension



* Tolerance: $\begin{array}{c} 0.01 & \text{inch} \\ \hline 0.25 & \text{mm} \end{array}$

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	$^{\circ}$ 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	2.4	V
IR	Reverse Current	VR = 5 V			50	μ A
$\triangle \theta$	Half Intensity Angle	IF= 20 mA		60		Deg.
IV	Luminous Intensity	IF= 20 mA		80		mcd.
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	IF=20mA		IF=20mA		IF=20mA	
Unit	mcd		V		nm	
	Grade	Range	Grade	Range	Grade	Range
		1	A	1.7~1.8	Y3	587~589
Binning		1	В	1.8~1.9	Y4	589~591
Diminig			C	1.9~2.0	Y5	591~593

Intensit: 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

IF=20 mA

Radiation Diagram

Radiation Diagram 10° 20° 0 Relative radiant intensity (%)100 30° 80 40° 50° 60 60° 70° 80° 50 90° 20 40

Angular displacement θ

50% Power Angle

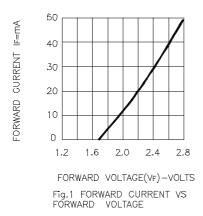
Angle $=60^{\circ}$

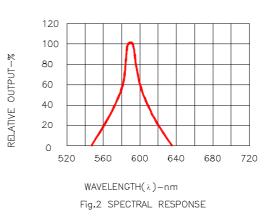


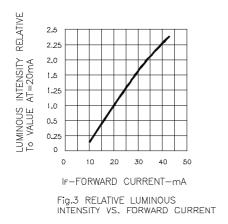


YELLOW

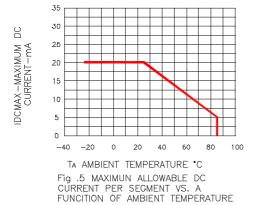
Typical Electro-optical Characteristic Curves (25 °C Free Air Temperature Unless Otherwise Specified)

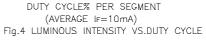


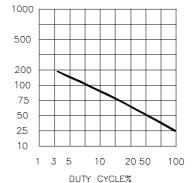












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Fig.6 MAX PEAK CURRENT VS. DUTY CYCLE %

(REFRESH RATE f=1KHz)





Mouser Electronics

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VCC: VAOL-3LCE2