

VAOL-3LWY4 3mm (T-1) Thru-hole LED Superbright LED Lamp

VAOL3 Series consists of T-1 (3mm) thru-hole LEDs with high intensity light output

Application

LED Bulb

- Commercial Outdoor Sign Board
- Front Panel IndicatorElectrical Panels

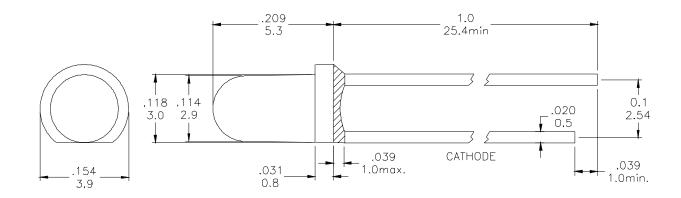
- Dot-Matrix Module
- Appliances

Key Features

- Low power consumption
- High intensity LEDs are based on InGaN/sapphire material technology
- · Emitted color: white
- Water transparent lens
- · Available with clear and diffused lens, flanged and flangeless, multiple viewing angles
- · Conflict mineral free
- Typical lifetime hours for LEDs is 50,000 hours
- · Compliant with RoHS and REACH requirements



All dimensions in inches/mm



*Tolerance: 0.01 0.25

Product Specifications

Absolute Maximum Ratings at Ta= 25°C

Symbol	Parameter	Мах	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/°C					
Topr	Operating Temperature Range	-40 to +80	°C					
Tstg	Storage Temperature Range	-40 to +100	°C					
Lead Soldering Temperature [1.6mm (0.063inch) From Body] 260°C For 5 Seconds.								



Product Specifications

Electrical / Optical Characteristics and Curves at Ta= 25°C

Symbol	Parameter	Test Condition	Min	Тур.	Max	Unit
VF	Forward Valtage	IF=20mA		3.5	4.0	V
	Forward Voltage			3.5	_	•
IR	Reverse Current	VR=5V			50	μΑ
Δθ	Half Intensity Angle	IF= 20mA		60		Deg
IV	Luminous Intensity	IF= 20mA		2500		mcd.
Х	Chromaticity	IF= 20mA		0.31		
Υ	Coordination	IF= 20mA		0.31		

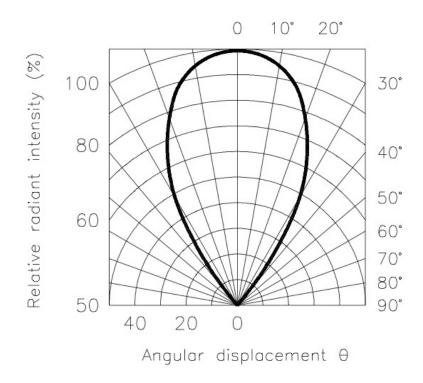
Intensity: Tolerance of minimum and maximum = $\pm 15\%$ Vf: Tolerance of minimum and maximum = $\pm 0.05v$

Note:

 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.
Specific binning requirements- please contact our home office

Radiation Diagram

IF=20 mA 50% Power Angle Angle =60





Product Specifications

Electrical Characteristics at (Ta=25°C)

Symbol	lv		V _F		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
	BIN18	1800~2500	P1	3.0~3.2	WA	Bluish White
	BIN19	2500~3500	P2	3.2~3.4	WB	Pure White
Binning	-	-	P3	3.4~3.6	WC	White
			P4	3.6~3.8	WD	Yellowish White
			P5	3.8~4.0		

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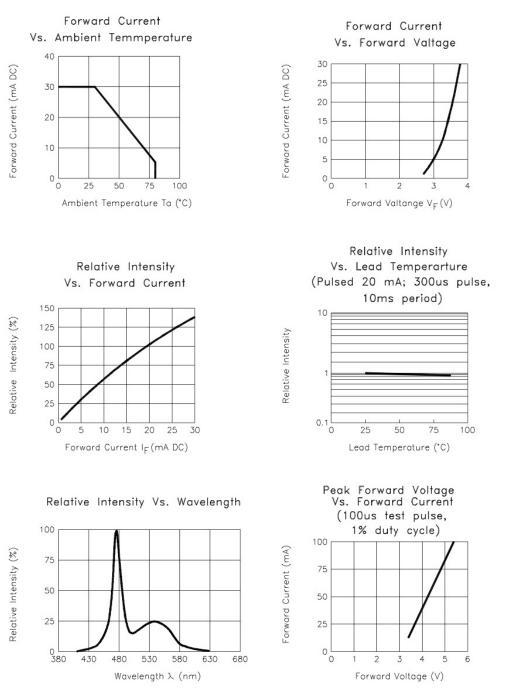
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1. Static electricity and surge damages the LED. It is recommend to use a anti-static wrist band or anti-electrostatic glove when handing the LEDs. All devices, equipment and machinery must be properly grounded.

2. Specific binning requirements- please contact VCC



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



Compliances and Approvals

