

# VAOL-3MWY4

## 3mm (T-1) Through-hole Round White LED



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

### Application

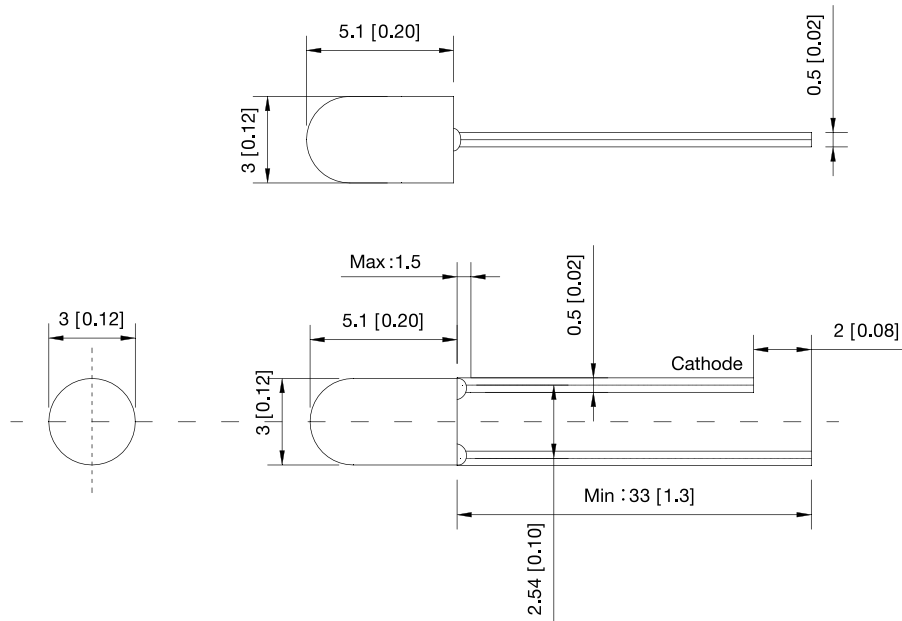
- Electronic Signs and Signals
- Small Area Illuminations
- Front Panel Indicator
- Electrical Panels
- Back Lighting
- Appliances

### Key Features

- High luminous LED
- 3mm round standard directivity
- Superior weather-resistance
- UV resistant epoxy
- High intensity LEDs are based on InGaN/Sapphire material technology
- Emitted color: neutral white
- Water transparent lens
- RoHS and REACH Compliant

## Package Dimension

All dimensions in mm [inch]



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

## Product Specifications

### Absolute Maximum Ratings at Ta= 25°C

Symbol	Parameter	Max	Unit
PD	Power Dissipation	100	mW
VR	Reverse Voltage	10	V
IF	Forward Current	30	mA
IPF	Peak Forward Current*	100	mA
Topr	Operating Temperature Range	-30 to +8	°C
Tstg	Storage Temperature Range	-40 to +100	°C

Lead Soldering Temperature [1.6mm ( 0.063inch) From Body] 260°C For 5 Seconds.

\* Pulse width Max 0.1msec Duty ratio max 1/10

## Product Specifications

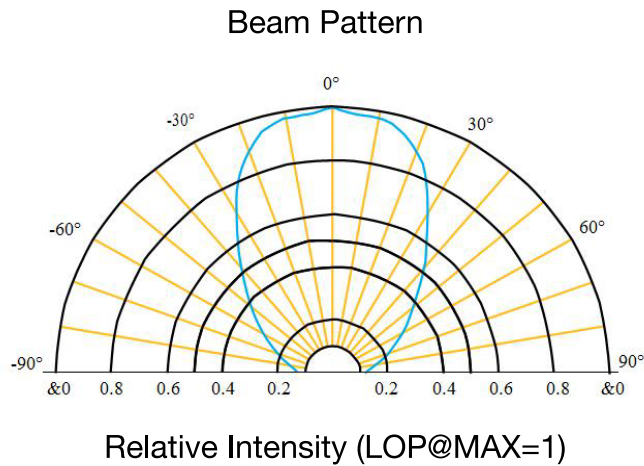
### Electrical / Optical Characteristics and Curves at Ta= 25°C

Symbol	Parameter	Test Condition	Min	Typ.	Max	Unit
VF	Forward Voltage	IF=20mA	3.0	-	3.4	V
IR	Reverse Current	VR=5V	-	-	10	μA
Δθ	Half Intensity Angle	IF= 20mA	-	60	-	Deg
IV	Luminous Intensity	IF= 20mA	2500	-	-	mcd.
CCT	Color Temperature	IF= 20mA	3750	-	5500	K

**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.

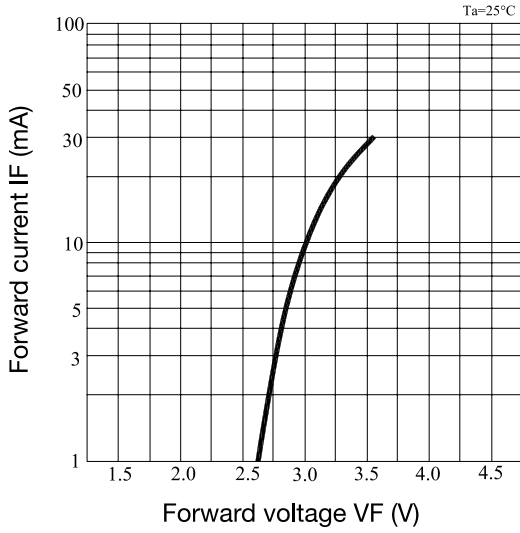
### Radiation Diagram

IF=20 mA    50% Power Angle    Angle =60°

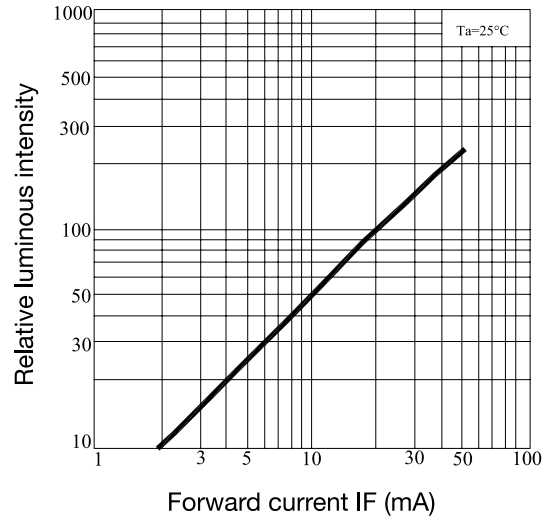


Typical Electro-Optical Characteristic Curves  
(25°C Free Air Temperature Unless Otherwise Specified)

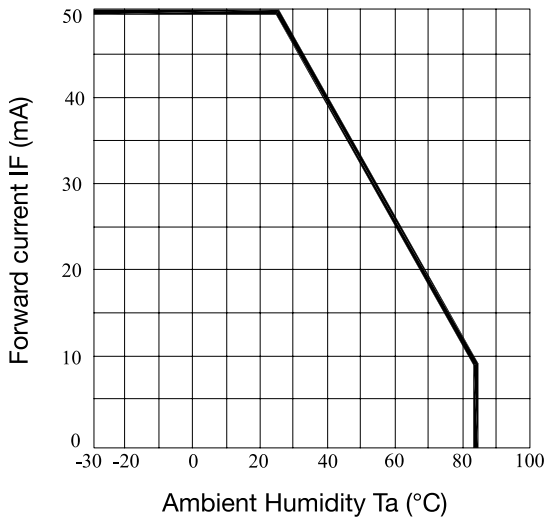
Voltage Current



Luminous Intensity - Forward Current



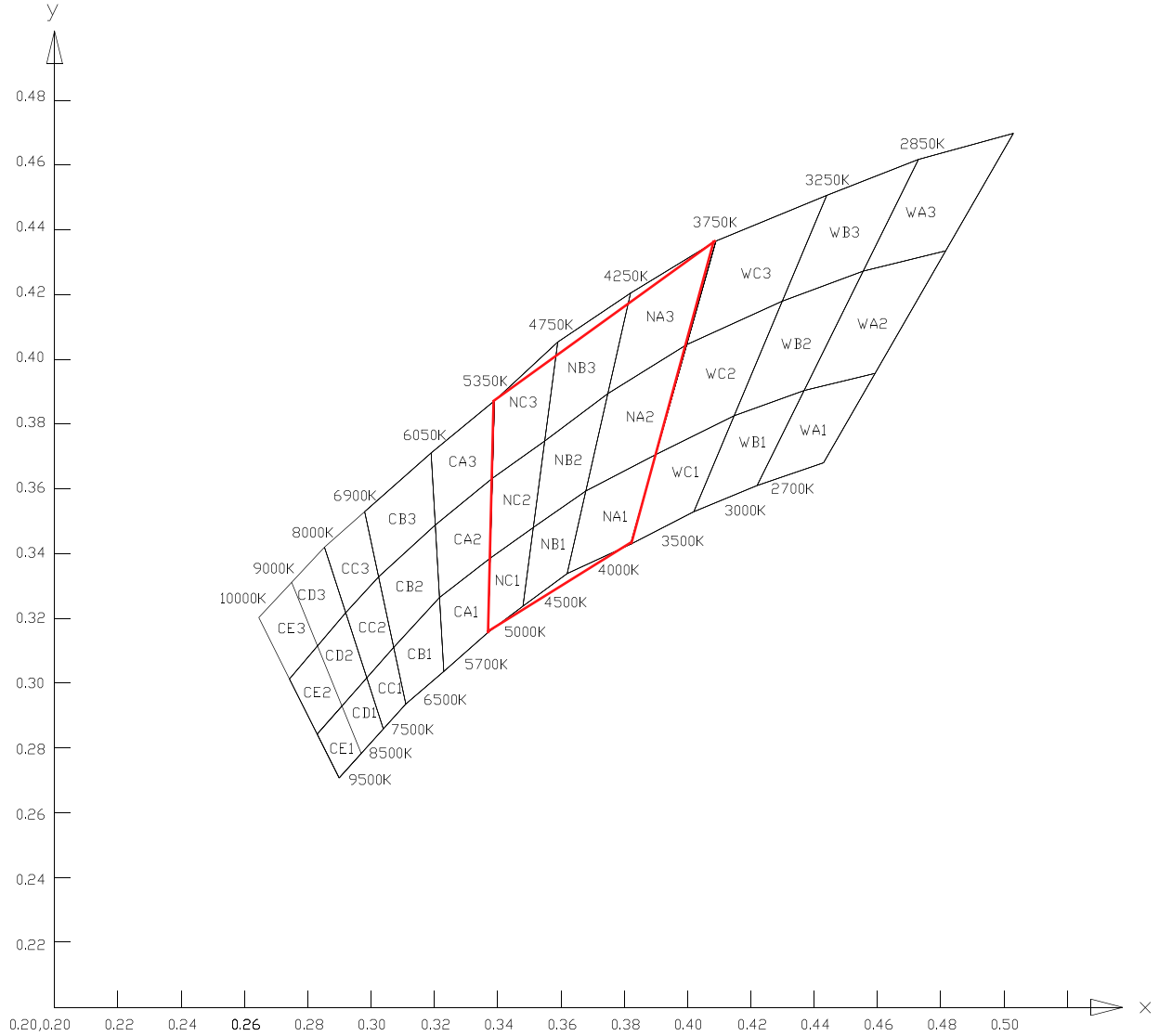
Forward Current - Ambient Humidity



# Product Specifications

## Typical Photo-Electricity Characteristic Curve Chart

### CIE 1931 xy Chromaticity Diagram



## Compliances and Approvals

