chanhvinh.com

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

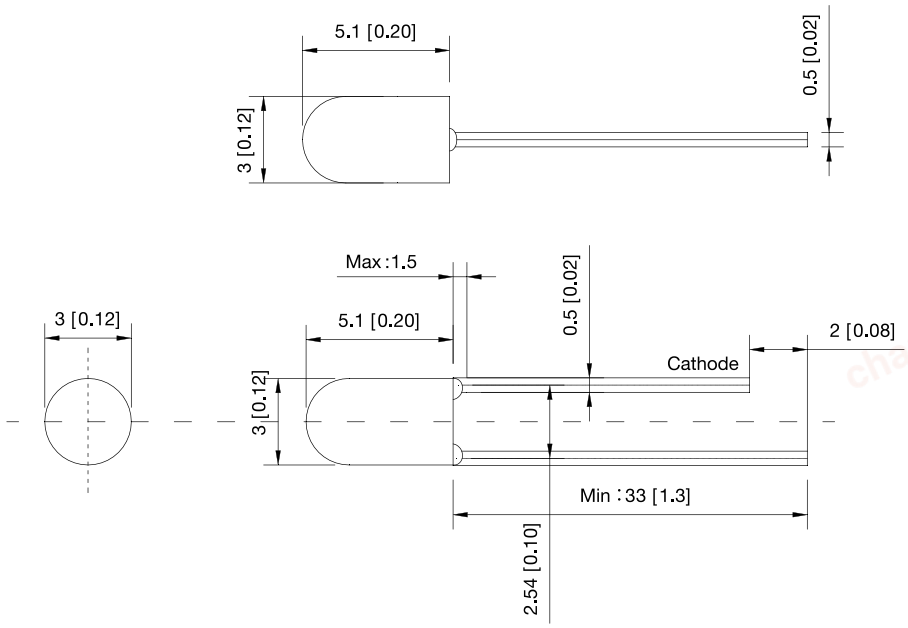
Key Features

- 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

chanhvinh.com

Package Dimension

All dimensions in mm [inch]



*Tolerance: 0.01 in
0.25 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

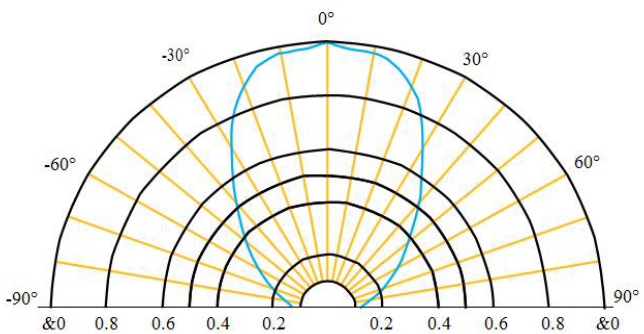
Symbol	Parameter	Test Condition	Min	Typ.	Max	Unit
VF	Forward Voltage	IF=20mA	3.0	-	3.4	V
IR	Reverse Current	VR=5V	-	-	10	μA
Δθ	Half Intensity Angle	IF= 20mA	-	60	-	Deg
IV	Luminous Intensity	IF= 20mA	2500	-	-	mcd.
CCT	Color Temperature	IF= 20mA	3750	-	5500	K

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˚

Beam Pattern



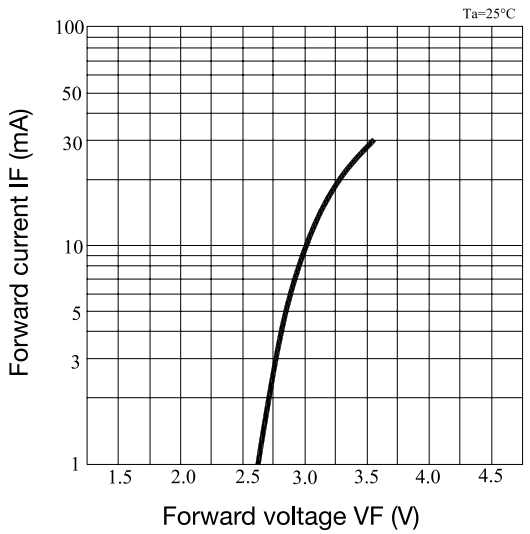
Relative Intensity (LOP@MAX=1)

chanhvinh.com

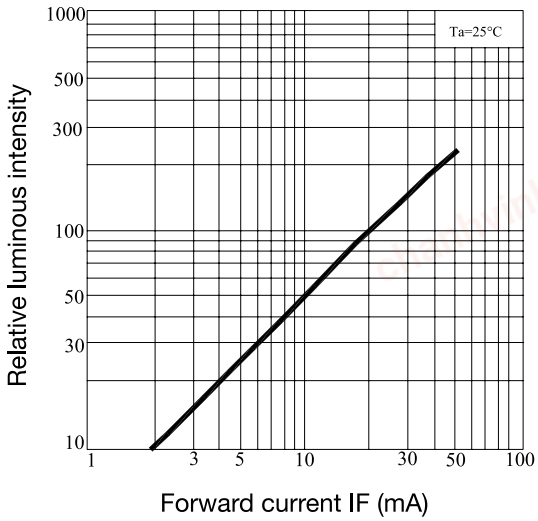
Product Specifications

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

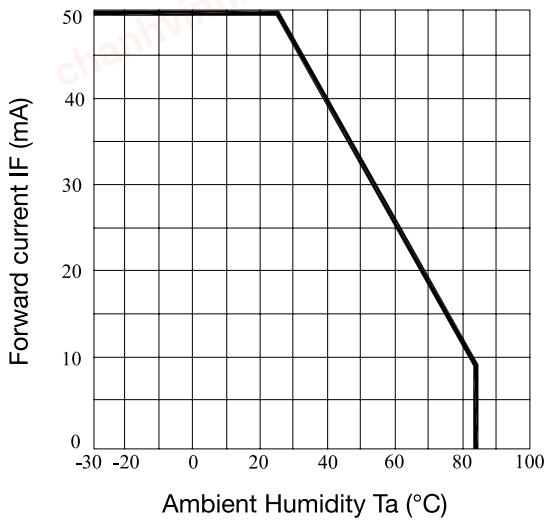
Voltage Current



Luminous Intensity - Forward Current

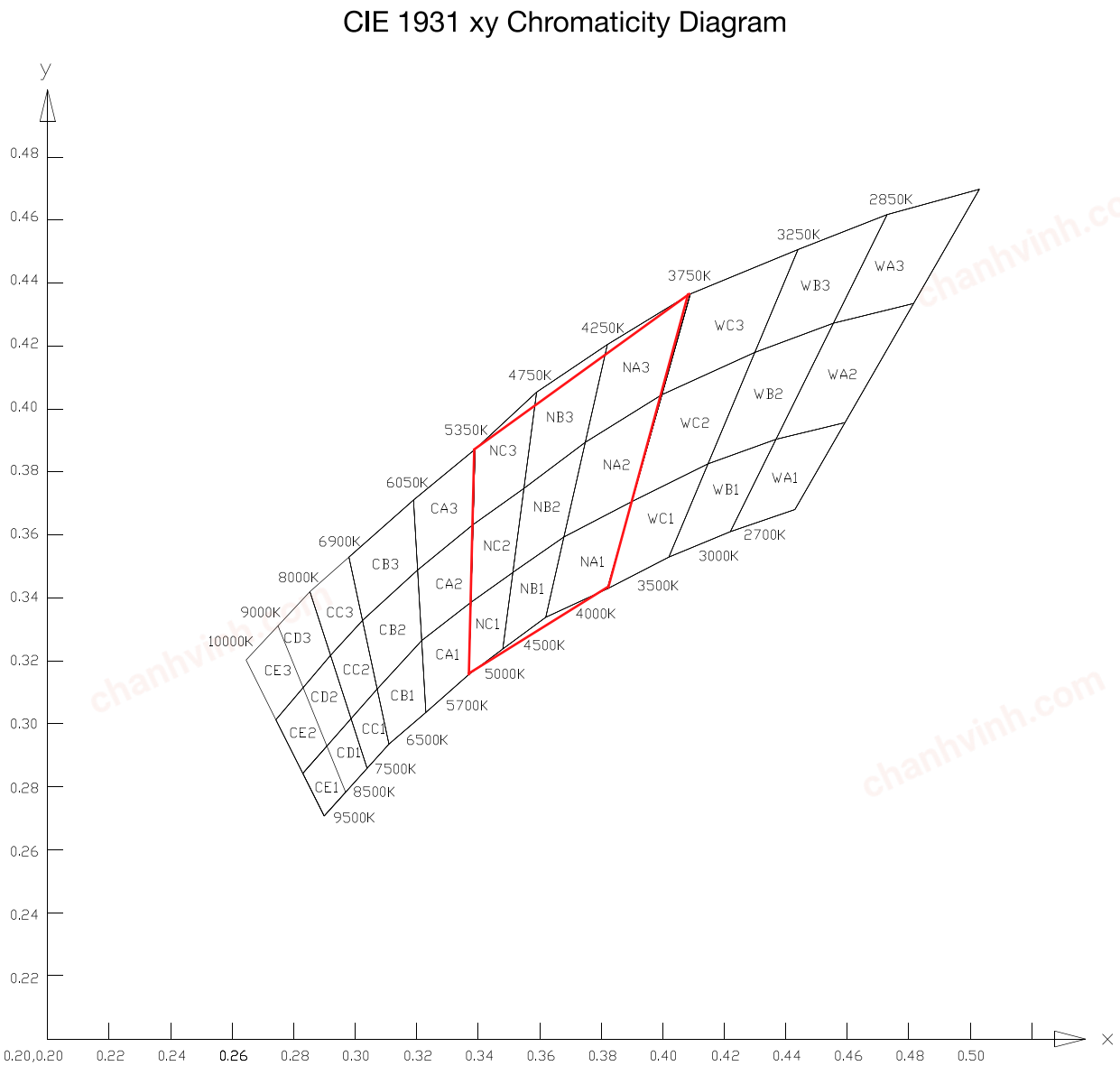


Forward Current - Ambient Humidity



Product Specifications

Typical Photo-Electricity Characteristic Curve Chart



Compliances and Approvals