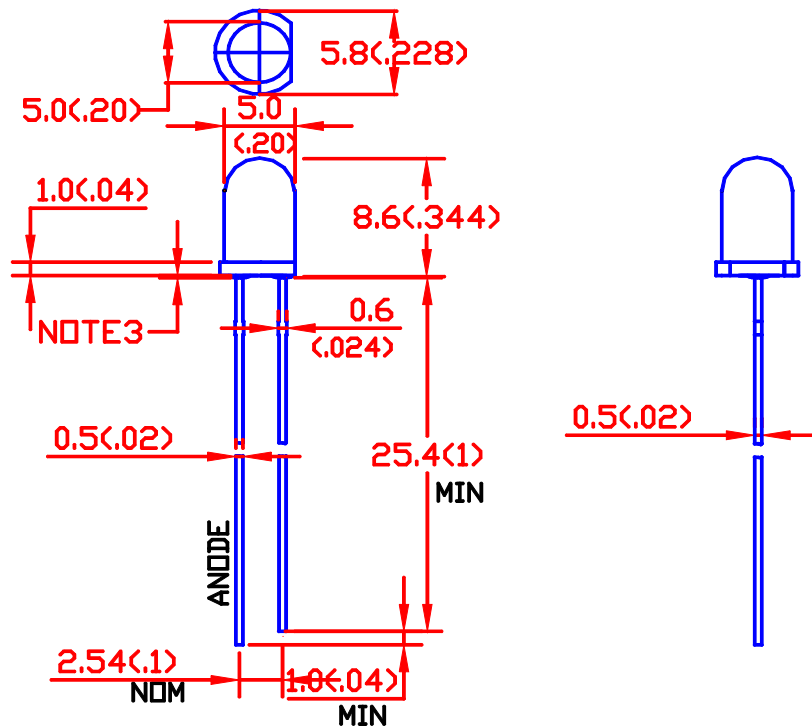


## Features:

- ◆ High intensity
- ◆ Standard T-1 3/4 diameter package
- ◆ General purpose leads
- ◆ Reliable and rugged

## Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
ETG-5CGWHT-15	InGaN	Water Clear	White

## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm}$  (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.04") max
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice
6. Precautions for ESD:  
 STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly grounded

## Absolute Maximum Ratings at Ta=25°C

Parameter	MAX.	Unit
Power Dissipation	120	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Operating Temperature Range	-25°C to +80°C	
Storage Temperature Range	-40°C to +100°C	
Lead Soldering Temperature [4mm(.157") From Body]	260°C for 5 Seconds	

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	12000	18000	25000	mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		15		Deg	(Note 2)
x,y coordinates (CIE 1931 2° )	x		0.2886		---	I <sub>f</sub> =20mA (Note 3)
	y		0.2768		---	I <sub>f</sub> =20mA (Note 3)
Forward Voltage	V <sub>f</sub>		3.2	4.0	V	I <sub>f</sub> =20mA
Reverse Current	I <sub>R</sub>	---	---	100	μA	V <sub>R</sub> =5V

### Notes:

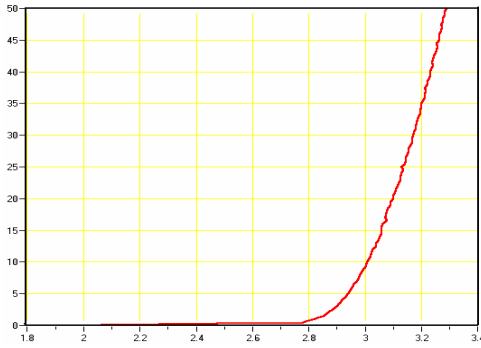
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ<sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The x and y parameters correspond to the CIE 1931 Chromaticity

# Typical Characteristics

The data typical, and the value is not guaranteed.

IF-VF(Ta=25 °C)

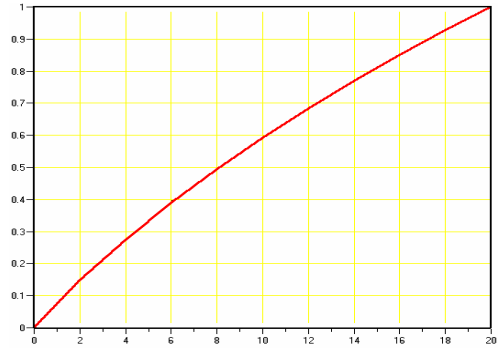
Forward Current IF(mA)



Forward Voltage VF(V)

Relative Luminous Intensity - IF  
(Ta=25 °C)

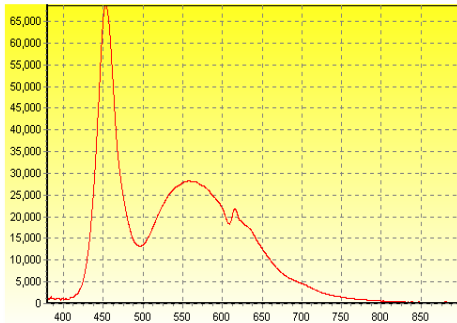
Relative Luminous Intensity



Forward Current IF(mA)

Wavelength Characteristics  
(Ta=25 °C)

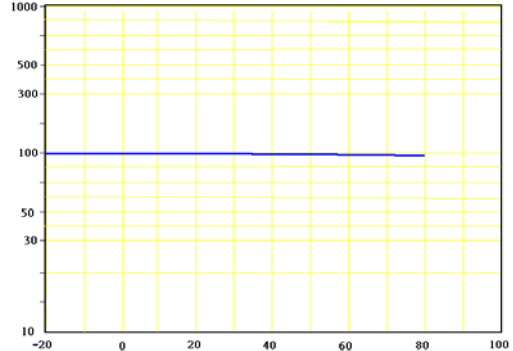
Relative Luminous Intensity



Wavelength λ (nm)

Relative Luminous Intensity-Ta

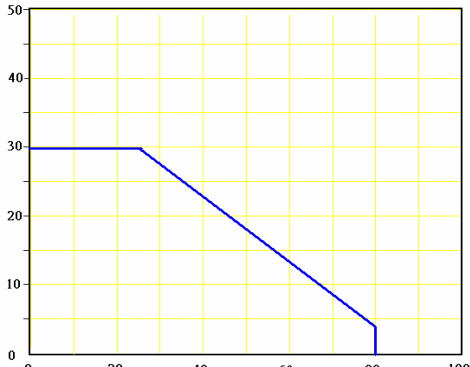
Relative Luminous Intensity



Ambient Temperature Ta ( °C)

IF-Ta

Forward Current IF(mA)



Ambient Temperature Ta ( °C)

Directive Characteristics ( Ta=25°C)

