



**ETG Inc.**

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# **ETG-5MNWHT-30**

## **DATA SHEET**

QC:

ENG:

Prepared By:

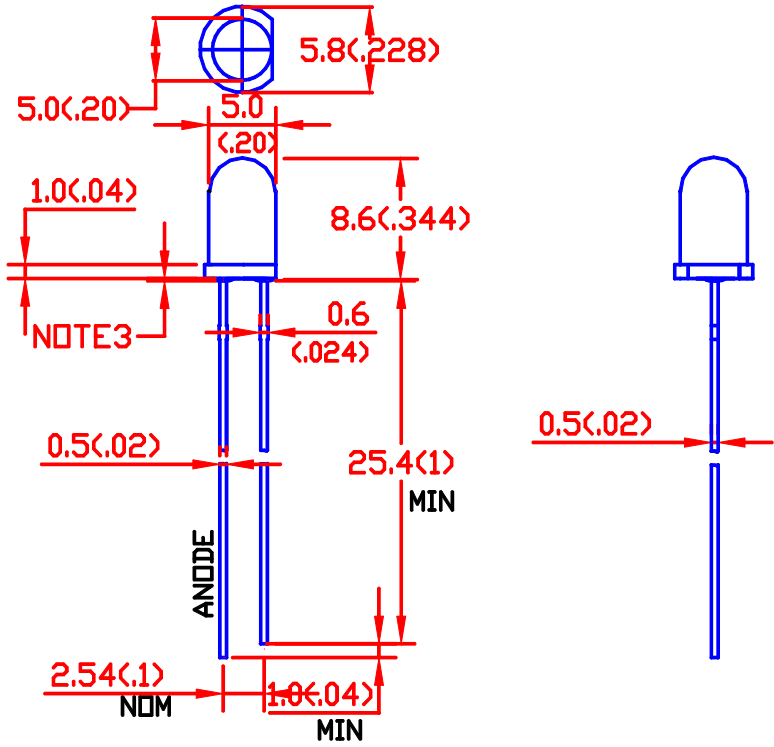


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**Features:**

- ◆ 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-5MNWHT-30	InGaN/SiC	Water Clear	White

**Notes:**

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25\text{mm} (.010\text{'})$  unless otherwise noted.
3. Protruded resin under flange is  $1.0\text{mm} (.04\text{'})$  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

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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>		4500		mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2θ <sub>1/2</sub>		30		Deg	(Note 2)
x,y coordinates (CIE 1931 2° )	x		0.31		---	I <sub>f</sub> =20mA (Note 3)
	y		0.29		---	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



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### Typical Characteristics

The data typical, and the value is not guaranteed.

