



**ETG Inc.**

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# **ETG-3MN470-30**

## DATA SHEET

QC:

ENG:

Prepared By:



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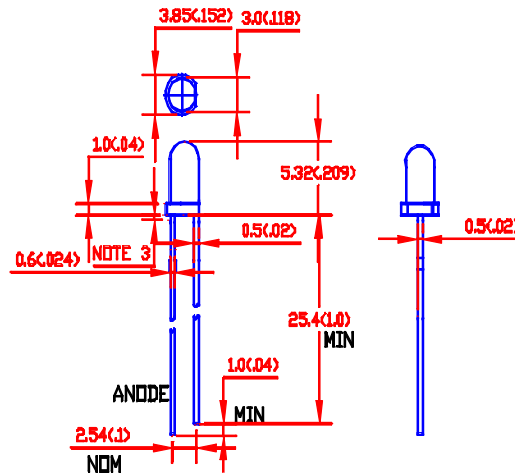
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## Features:

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



Part NO.	Chip Material	Lens Color	Source Color
ETG-3MN470-30	InGaN/SiC	Water Clear	Super Bright Blue

## Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25$  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.

## Absolute Maximum Ratings at Ta=25?

Parameter	MAX.	Unit
Power Dissipation	75	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	30	mA



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Derating Linear From 50?	0.4	mA/?
Reverse Voltage	5	V
Operating Temperature Range	-40? to +100?	
Storage Temperature Range	-40? to +100?	
Lead Soldering Temperature [4mm(.157") From Body]	260? for 5 Seconds	

### Electrical Optical Characteristics at Ta=25?

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	1500	2400	3300	mcd	I <sub>f</sub> =20mA (Note 1)
Viewing Angle	2? <sub>1/2</sub>	25	30	35	Deg	(Note 2)
Peak Emission Wavelength	? p		468		nm	I <sub>f</sub> =20mA
Dominant Wavelength	? d	465	470	475	nm	I <sub>f</sub> =20mA (Note 3)
Spectral Line Half-Width	? ?				nm	I <sub>f</sub> =20mA
Forward Voltage	V <sub>f</sub>	1.9	2.15	2.4	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.

? <sub>1/2</sub> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.