E T G Inc.
8599 Venice BLVD, Suite K, Los Angeles CA 90034, U. S. A.
Phone: + 1 (310) 202-6400 Fax: +1 (310) 202-6406
http://www.etgtech.com/ EMail: info@etgtech.com

ETG-5UV405-30

DATA SHEET

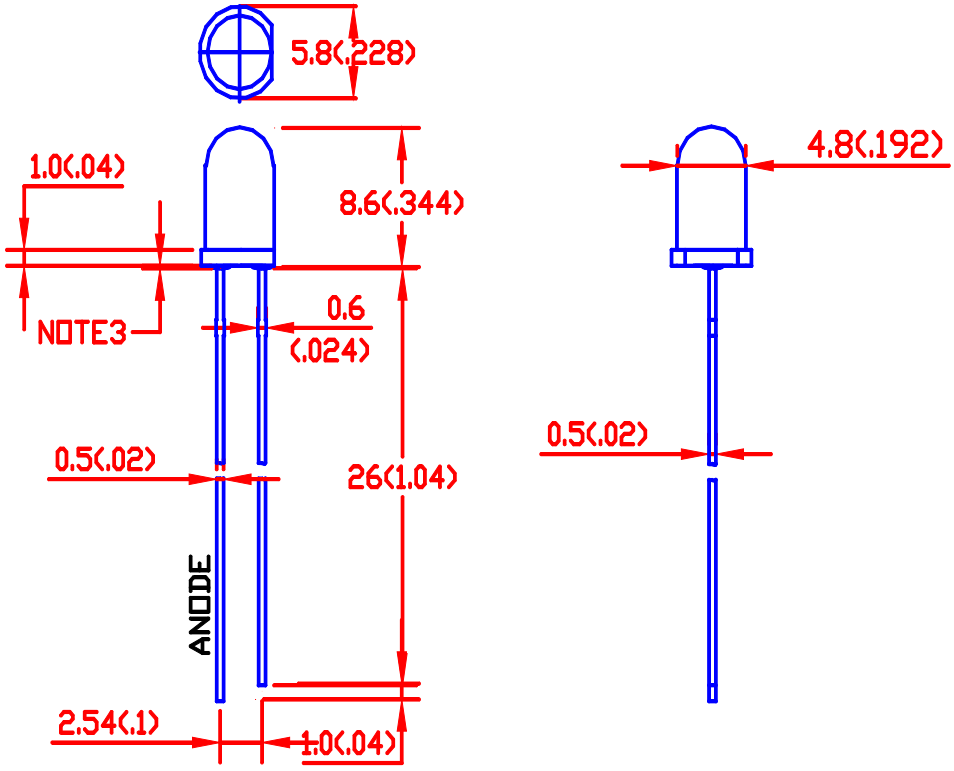
QC: ENG: Prepared By:

E T G Inc.
8599 Venice BLVD, Suite K, Los Angeles CA 90034, U. S. A.
Phone: + 1 (310) 202-6400 Fax: +1 (310) 202-6406
http://www.etgtech.com/ EMail: info@etgtech.com

Features:

- High Reliability
- Standard T-1 3/4 diameter package
- High Radiant Intensity
- Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
ETG-5UV405-30	InGaN/SiC	Water Clear	UV light

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ±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.
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.

E T G Inc.
8599 Venice BLVD, Suite K, Los Angeles CA 90034, U. S. A.
Phone: + 1 (310) 202-6400 Fax: +1 (310) 202-6406
http://www.etgtech.com/ EMail: info@etgtech.com

Absolute Maximum Ratings at Ta=25℃

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
Reverse Voltage	5	V
Operating Temperature Range	-25℃ to +80℃	
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	Iv	80	170	--	mcd	I_f=20mA (Note 1)
Power	W	---	6.15	---	mW	I_f=20mA
Viewing Angle	$2\theta_{1/2}$		30		Deg	(Note 2)
Peak Emission Wavelength	λp		405		nm	I_f=20mA
Domain Emission Wavelength	λd	400	405	410	nm	I_f=20mA
Spectral Line Half-Width	△λ		25		nm	I_f=20mA
Forward Voltage	V_f		3.5	4.5	V	I_f=20mA
Reverse Current	I_R	---	---	50	μA	V_R=5V

Notes:

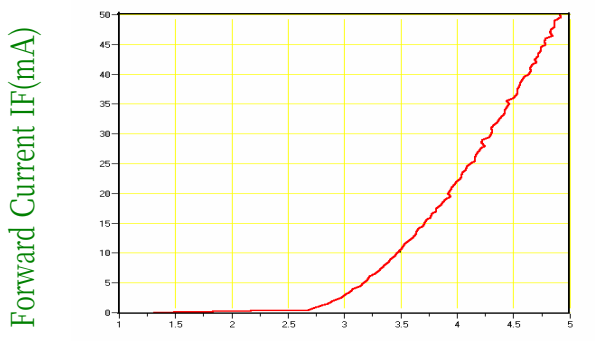
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength (λd) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

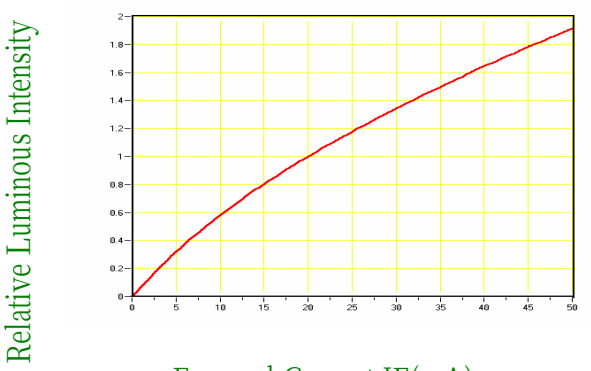
E T G Inc.
8599 Venice BLVD, Suite K, Los Angeles CA 90034, U. S. A.
Phone: + 1 (310) 202-6400 Fax: +1 (310) 202-6406
http://www.etgtech.com/ EMail: info@etgtech.com

Typical Characteristics

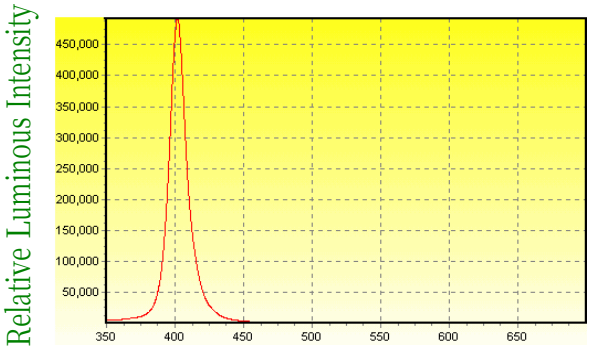
The data typical , and the value is not guaranteed.

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

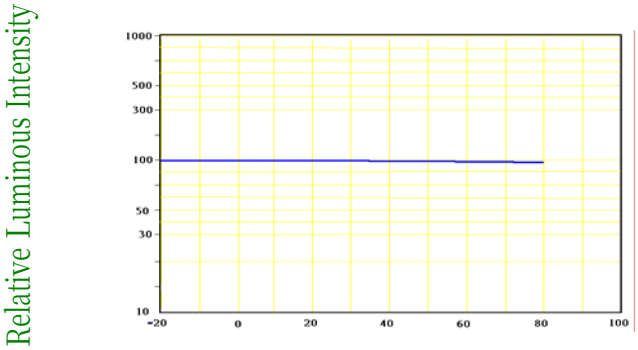




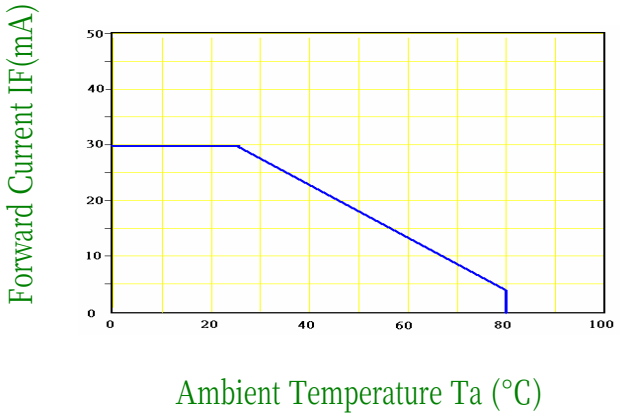
Wavelength Characteristics
(Ta=25°C)



Relative Luminous Intensity-Ta



IF-Ta



Directive Characteristics（Ta=25°C）