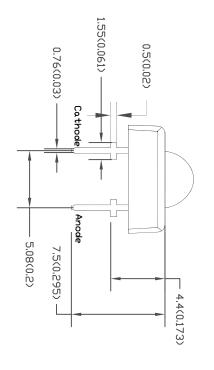
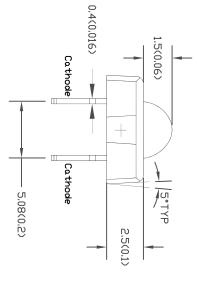


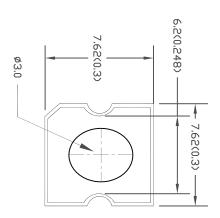
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### **Package Dimension:**







#### Notes

- All dimensions are in millimeters (inches).
   Tolerance is ±0.25mm (.010°) unless otherwise noted.
   Protruded resin under flange is 1.0mm (.04°) max.
   Lead spacing is measured where the leads emerge from the package.
   Specifications are subject to change without notice.
   This data-sheet only valid for six months.

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ETG-PTS590-70	Part No	
A1GaInP	Chip Material	
Water Clear	Lens Color	
Super Bright Yellow	Source Color	



ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABLITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LABILITY WHATSOEVER IN CONNECTION THEREWITH. DISCLAIMER: UNLESS DEPERTMENTS DIMENSION REFERENCES

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## **Absolute Maximum Ratings**

(Ta=25°C)

260°C for 5 Seconds	260°C for	Lead Soldering Temperature [4mm(.157') From Body]
) +80°C	-40°C to +80°C	Storage Temperature Range
0 +80°C	-40°C to +80°C	Operating Temperature Range
<	IJ	Reverse Voltage
mA/*C	0.4	Derating Linear From 50°C
3.	50	Continuous Forward Current
™A	100	Peak Forward Current (1/10 Duty Cycle, Olms Pulse Width)
3√	100	Power Dissipation
Unit	Max.	Parameter

# **Electro-optical Characteristics**

(Ta=25°C)

V <sub>R</sub> =5∨	Ē	100			ÎR	Reverse Current
I=20mA	<	8,5	2,25	1.8	<b>&lt;</b>	Forward Voltage
I+=20mA	23	25	20	15	Δλ	Spectral Line Half-Width
I <sub>f</sub> =20mA (Note 3)	23	595	590	585	λd	Dominant Wavelength
I≠=20mA	3	595	590	585	λp	Peak Emission Wavelength
(Note 2)	Deg	80	70	60	201/2	Viewing Angle
I=50mA (Note 1)	lm	-	1.65	1.25	Lя	Luminous Flux
Test Condition	Unit	Max.	Тур.	Min.	Symbol Min. Typ. Max. Unit	Parameter

#### Notes:

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



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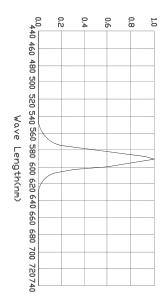


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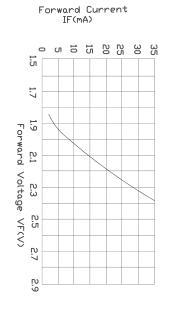
# Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

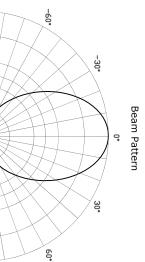
## Spectral Radiance (Peak @ 590nm)

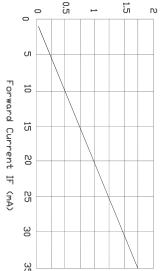


Normalized Resposne

## Forward Current vs Forward Voltage







Relative Luminous Intensity

vs Forward Current

Relative Intensity (LOP@20mA=1)



Relative Intensity (LOP@MAX=1)

-90

1.0

8.0

0.6

0.4 3.0

9.0

0.8 1.0



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