



ETG Inc.

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ETG-PRG590-180

DATA SHEET

QC:

ENG:

Prepared By:



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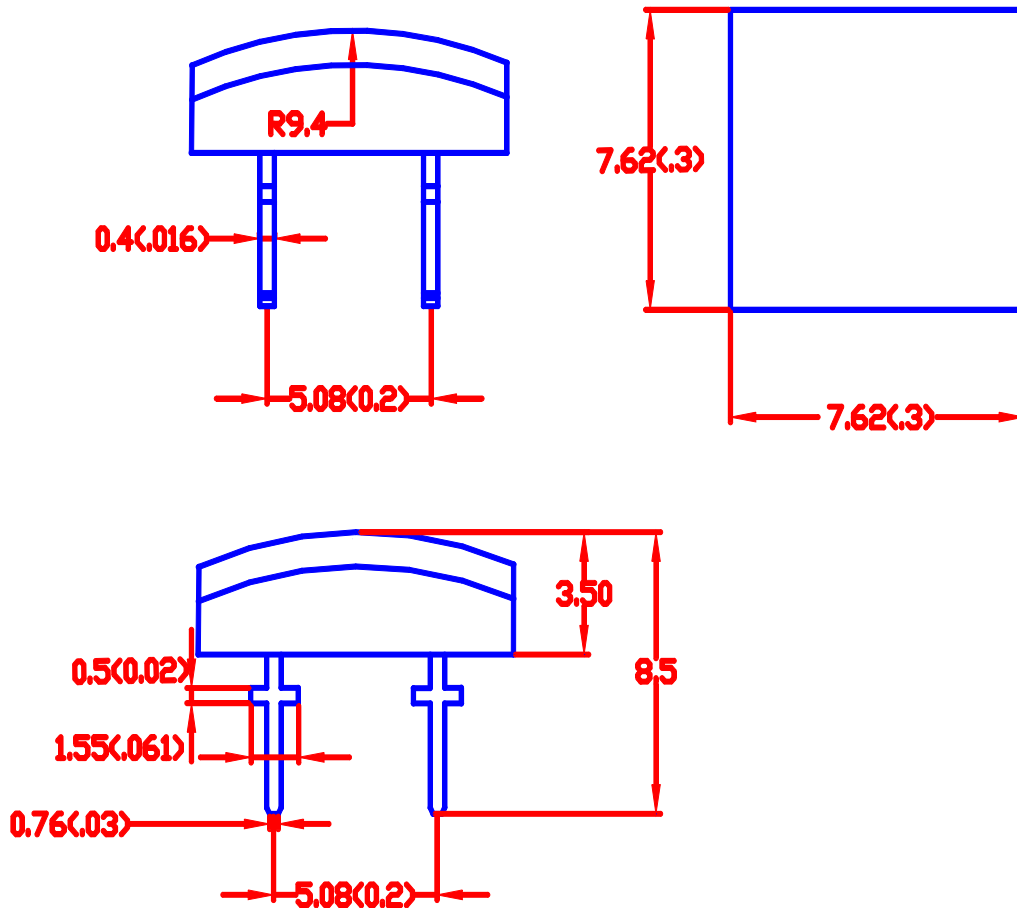
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Package Dimension:



Part NO.	Chip Material	Lens Color	Source Color
ETG-PRG590-180	AlInGaP	Water Clear	Yellow

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.

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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	50	mA
Derating Linear From 50	0.4	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	I_v		600		mcd	$I_f=30\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$		140		Deg	(Note 2)
Peak Emission Wavelength	λ_p		590		nm	$I_f=30\text{mA}$
Spectral Line Half-Width	λ		25		nm	$I_f=30\text{mA}$
Dom Emission Wavelength	λ_d		588		nm	$I_f=30\text{mA}$
Forward Voltage	V_f		2.2	2.6	V	$I_f=30\text{mA}$
Reverse Current	I_R	---	---	100	μA	$V_R=5\text{V}$

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 (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.



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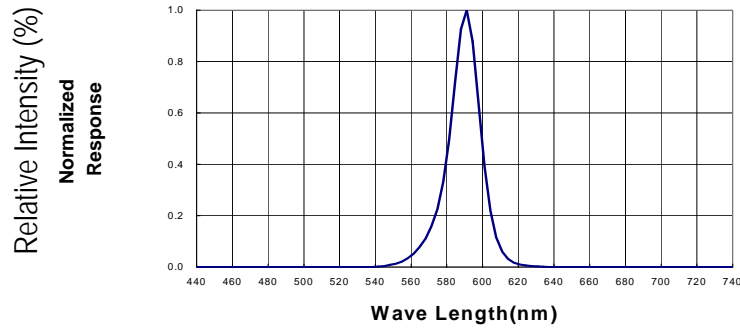
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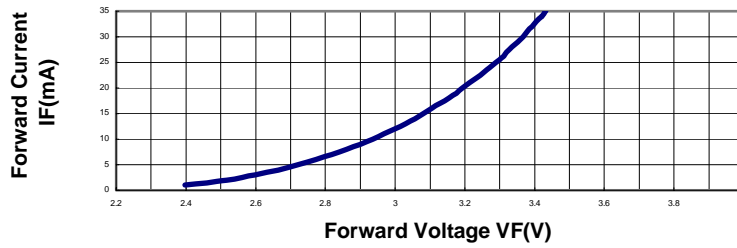
Typical Electrical / Optical Characteristics Curves

(25 Ambient Temperature Unless Otherwise Noted)

Relative Intensity vs. Wavelength
Spectral Radiance (Peak @ 590nm)



Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current

