

Datasheet

Item no. 1577312

Features

- High Flux Output
- Low Profile
- Low Thermal Resistance
- Low Power Consumption
- Pb free



Descriptions

This revolutionary package design allows the light designer to reduce the number of LEDs required and provide a more uniform and unique illuminated appearance than with other LED solutions. This is possible through the efficient optical package design and high-current capabilities

The low profile package can be easily coupled with reflectors or lenses to efficiently distribute light and provide the desired light appearance

Usage Notes:

- The ultra bright LED is an electrostatic insensitive device, so static electricity and surge will damage the LED. It is required to wear a wrist-band when handling the LED. All device, equipment, machinery, desk and ground must be properly grounded
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

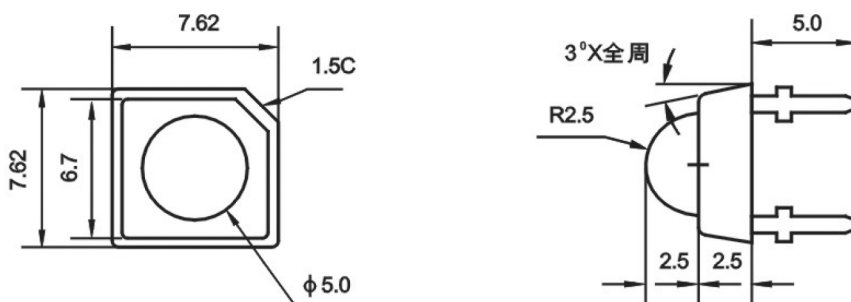
- Automotive Exterior Lighting
- Electronic Signs and Signals
- Special Lighting application

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
1577312	AlGaInP	Red	Water clear

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Package Dimensions



UNIT:mm

Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

Electro-Optical Characteristics (T_a=25℃)

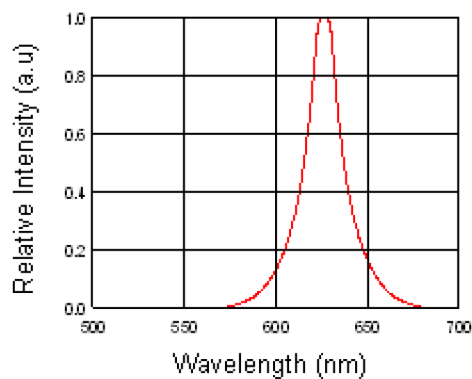
Parameter	Symbol	Mix	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _v	1300	---	1600	Mcd	I _F =20mA
Viewing Angle	2θ _{1/2}	---	100	---	Deg	(Note 1)
Peak Emission Wavelength	λ _p	620	---	635	nm	I _F =20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	I _F =20mA
Forward Voltage	V _F	1.9	---	2.3	V	I _F =20mA
Reverse Current	I _R	---	---	10	μA	V _R =5V

Note:

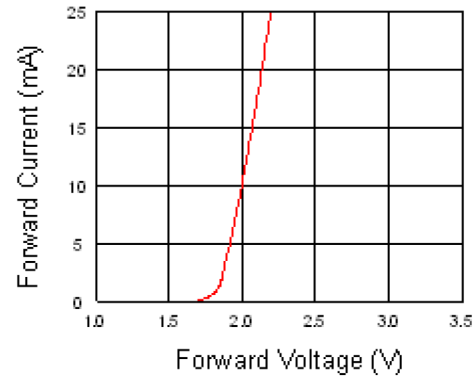
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

Typical Electro-Optical Characteristics Curves

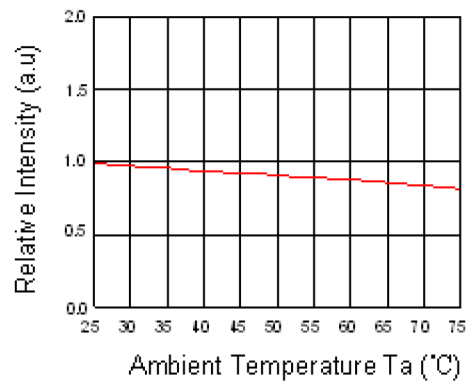
Relative Intensity VS. Wavelength



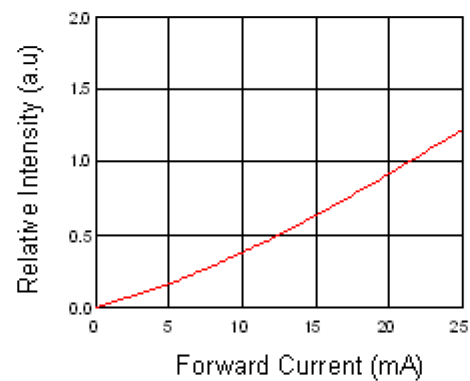
Forward Current VS. Forward Voltage



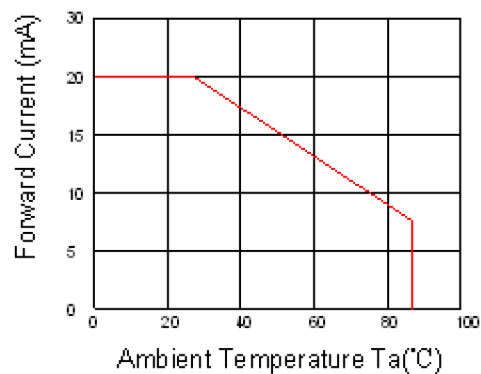
Relative Intensity VS. Ambient Temp



Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics

