



### Description

### LED780E

The LED780E emits light with a spectral output centered at 780 nm. This LED is encapsulated in a round clear epoxy casing with a 5 mm diameter.

### Specifications

Electrical Specifications		
	Typical	Maximum Ratings
Power Dissipation	-	190 mW
Reverse Voltage	-	5.0 V
DC Forward Current	-	100 mA
Pulse Forward Current (Duty=10% and Pulse Width=1ms)	-	500 mA
Forward Voltage @ 50 mA	1.75 V	1.95 V
Reverse Current ( $V_r = -5$ V)	-	10 $\mu$ A
Operating Temperature	-	-30 to 85 °C
Storage Temperature	-	-30 to 100 °C



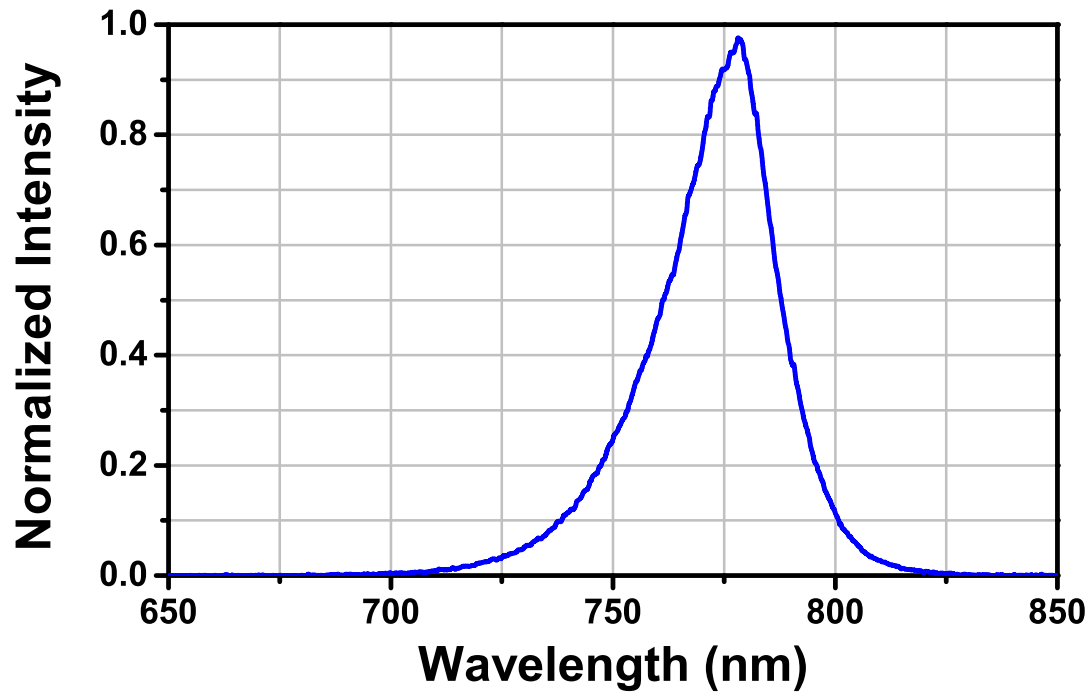
\*Note: All maximum measurements specified are at 25 °C.

Optical Specifications	
	Typical
Center Wavelength	780 nm $\pm$ 10 nm
FWHM	30 nm
Half Viewing Angle	10 °
Forward Optical Power	7.2 mW @ 20 mA
Total Optical Power	18 mW @ 20 mA
Rise/Fall Time	80/80 ns

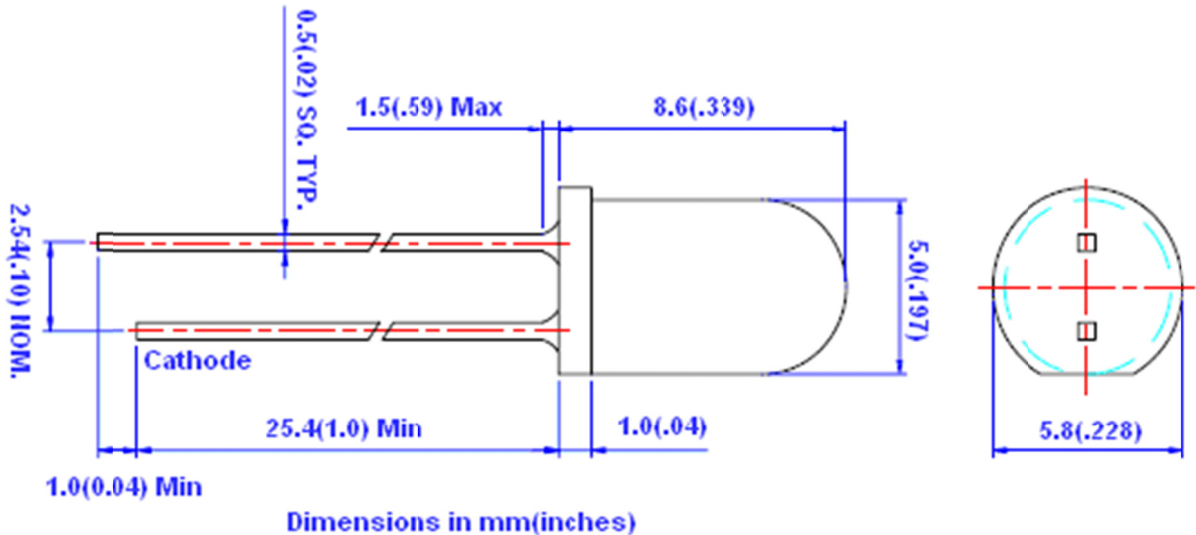
Soldering Specifications	
	Conditions
Manual Soldering	295 °C $\pm$ 5 °C , for less than 3 seconds
Wave Soldering	260 °C $\pm$ 5 °C , for less than 5 seconds
Reflow Soldering	Preheating: 70 °C to 80 °C , for 30 seconds Soldering: 245 °C $\pm$ 5 °C , for less than 5 seconds

Cleaning Solvents							
Solvent	Ethyl Alcohol	Isopropyl Alcohol	Propanol	Acetone	Chloroseen	Trichloroethylene	MKS
Approved	Yes	Yes	Yes	No	No	No	No

## Typical Spectral Intensity Distribution



## Drawing



## Typical Radial Intensity Distribution

