



LED1070E

Description

The LED1070E emits light with a spectral output centered at 1070 nm. This LED is encapsulated in a round clear epoxy casing with a 5 mm diameter.

Specifications



Electrical Specifications		
	Typical	Maximum Ratings
Power Dissipation	-	140 mW
Reverse Voltage	-	5 V
DC Forward Current	50 mA	100 mA
Pulse Forward Current (Duty=1% and Pulse Width=10μs)	-	1000 mA
Forward Voltage @ 20 mA	1.05 V	1.25 V
Forward Voltage @ 50 mA	1.15 V	1.35 V
Operating Temperature	-	-40 to 100° C
Storage Temperature	-	-40 to 100° C

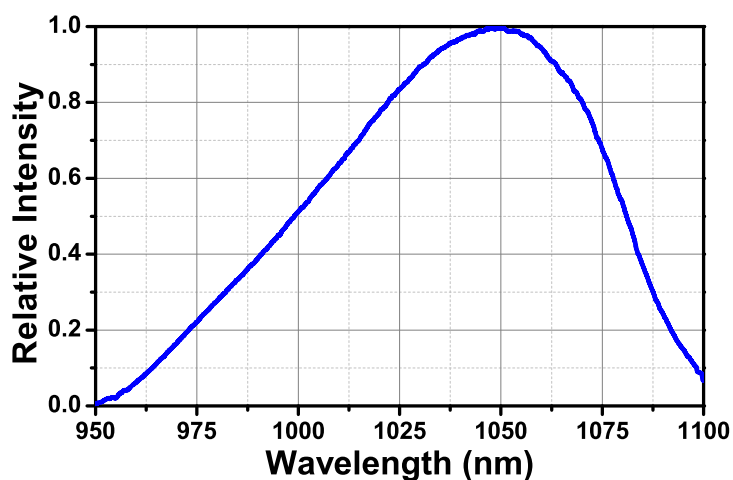
*Note: All maximum measurements specified are at 25° C.

Optical Specifications	
	Typical
Center Wavelength @ 50 mA	1070 nm± 50 nm
FWHM	80 nm
Half Viewing Angle	15°
Optical Power (Minimum/Typical) @ 50 mA	4.0 mW/7.5 mW

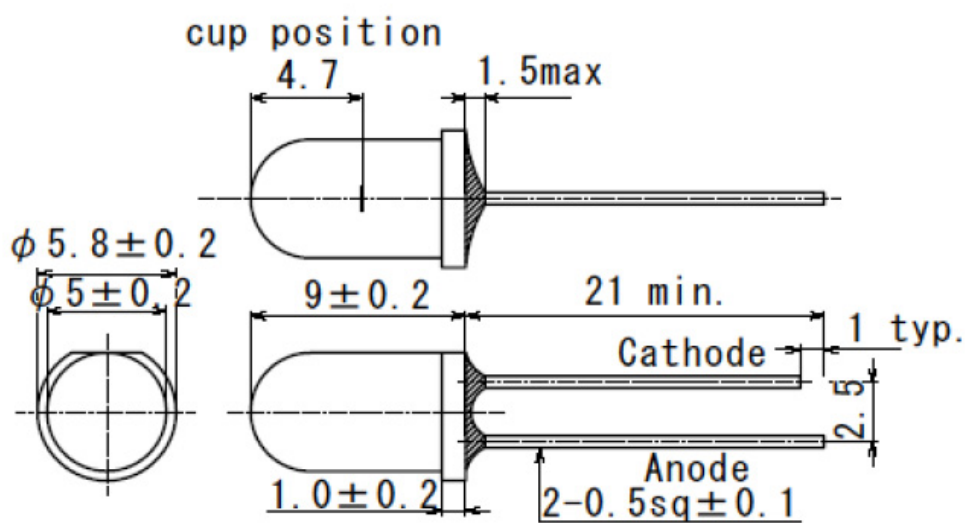
Soldering Specifications	
	Conditions
Soldering Temperature	265° C Maximum

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



Precautions and Warranty Information

These products are ESD (electro static discharge) sensitive and as a result are not covered under warranty. In order to ensure the proper functioning of an LED care must be given to maintain the highest standards of compliance to the maximum electrical specifications when handling such devices. The LEDs are particularly sensitive to any voltage that exceeds the absolute maximum ratings of the product. Any applied voltage in excess of the maximum specification will cause damage and possible complete failure to the product. The user must use handling procedures that prevent any electro static discharges or other voltage surges when handling or using these devices.