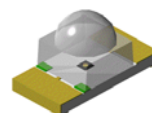


Dome Package Infrared LED 940nm

US 9628

Description

The US 9628 is used high efficiency 940nm GaAlAs materials, molded into dome package with clear lens. Comparing conventional GaAs/GaAs technology under similar wavelength, GaAlAs offers much higher radiant power. The viewing angle being offered is 20 degree.



Applications

- Opto-Electronic Switch
- Smoke detector
- Miniature light barrier
- Infrared sensor

RoHS



Electronic Optical Characteristics (at 20mA):

Part Number	λ (nm)		Lens Color	mW/sr		View Angle (2 θ 1/2)	VF(V)	
	λ_p	$\Delta\lambda$		Min.	Typ.		Typ.	Max.
US 9628	940	45	Water Clear	1.5	4.0	20	1.2	1.5

* Radiant Intensity Typ. 4.0 mW/sr @ IF=100mA, tp=100u sec, tp/T=0.01, VF @ 1.90 Max.

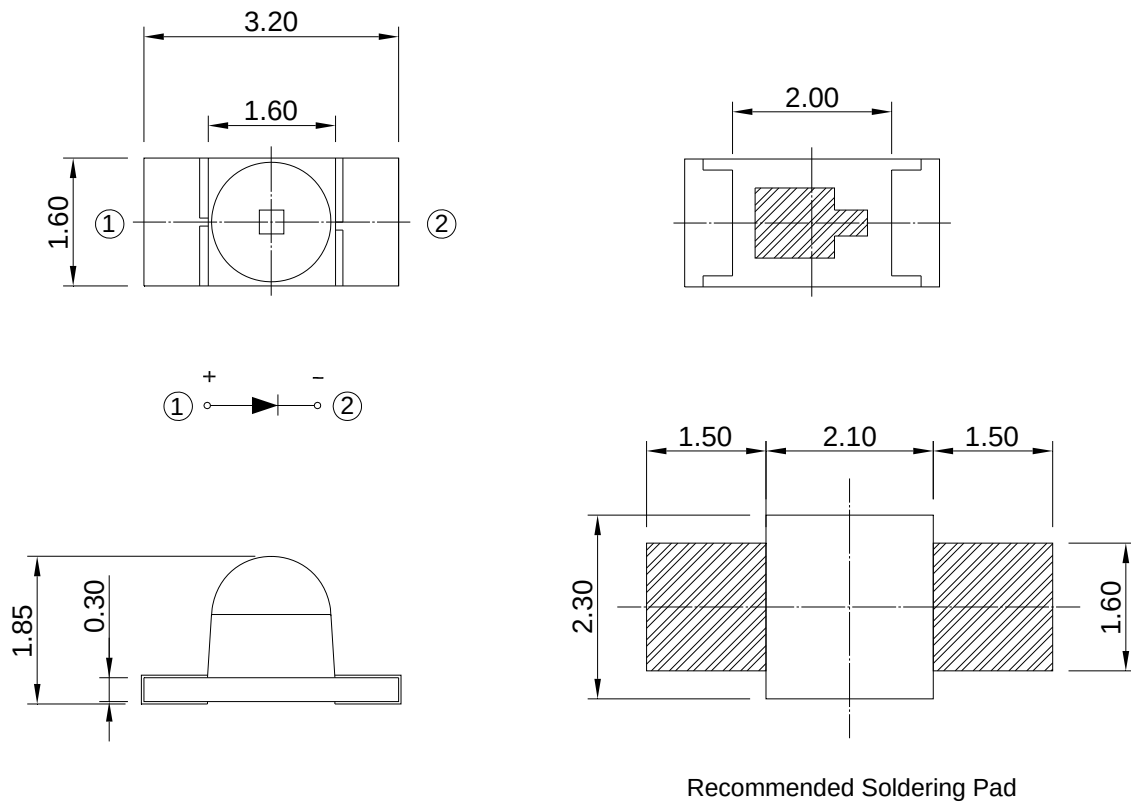
Absolute Maximum Ratings (at Ta=25°C)

Parameter	Symbol	Rating	Unit	Condition
Continuous Forward Current	IF	60	mA	
Peak Forward Current		1.0	A	Pulse Width=100us Duty Cycle = 1%
Soldering Temperature	Tsol	260	°C	4mm from lens body less than 5 seconds
Storage Temperature	Tstg	-40 - +85	°C	
Operating Temperature	Topr	-25 - +85	°C	
Power Dissipation	PD	150	mW	25°C Free Air Temperature

Note: Please take note the Absolute Maximum Rating values. Any operation beyond the specified ratings in this table will result degradation of LED life- span and may cause LED to fail

Package Dimension:

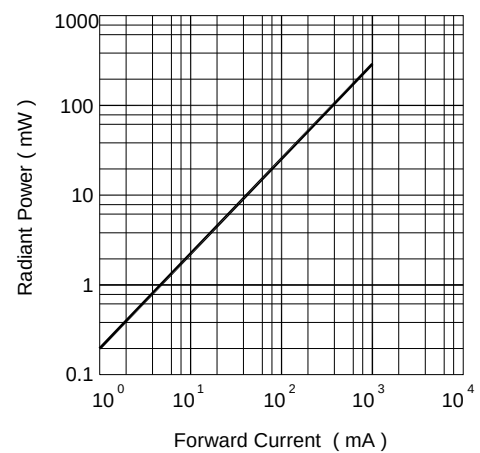
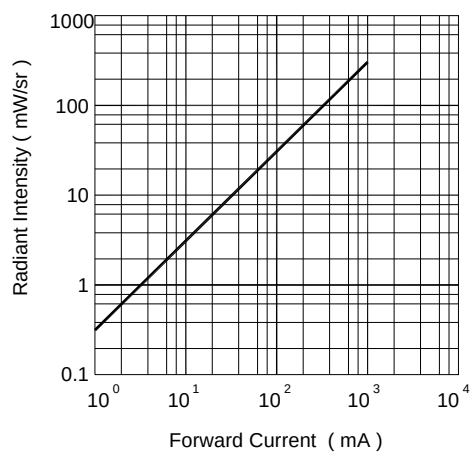
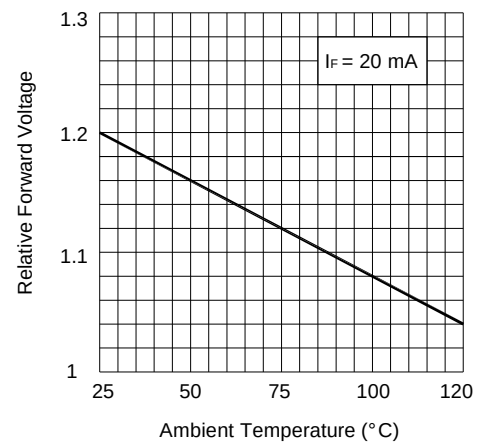
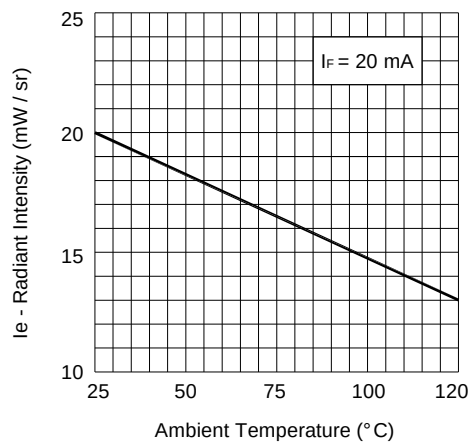
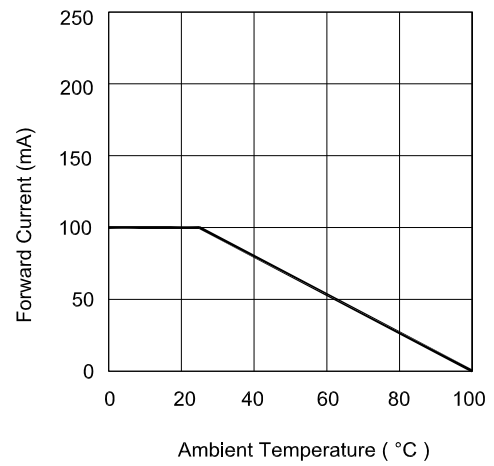
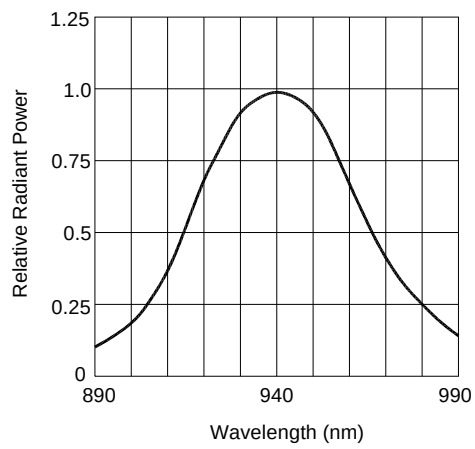
unit:mm



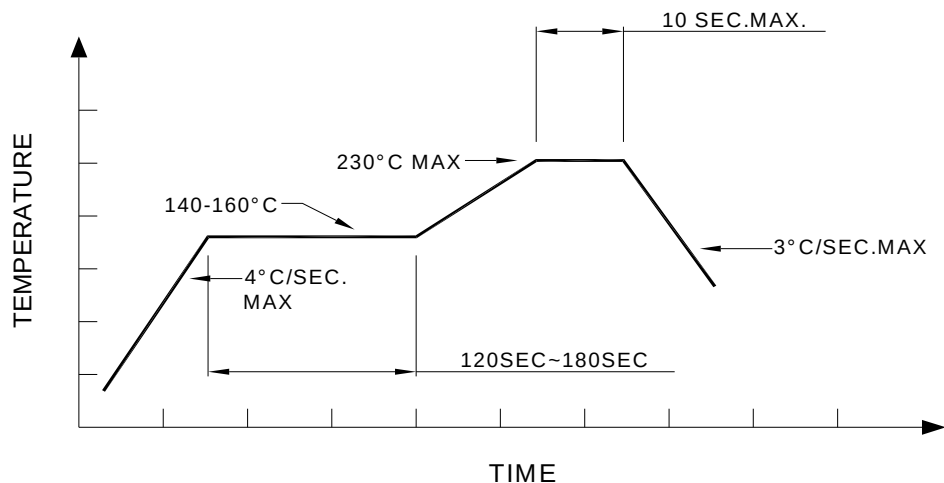
Notes:

1. All dimensions are millimeters.
2. Tolerance is $\pm 0.2\text{mm}$ unless otherwise specified.
3. Specifications are subject to change without notice.

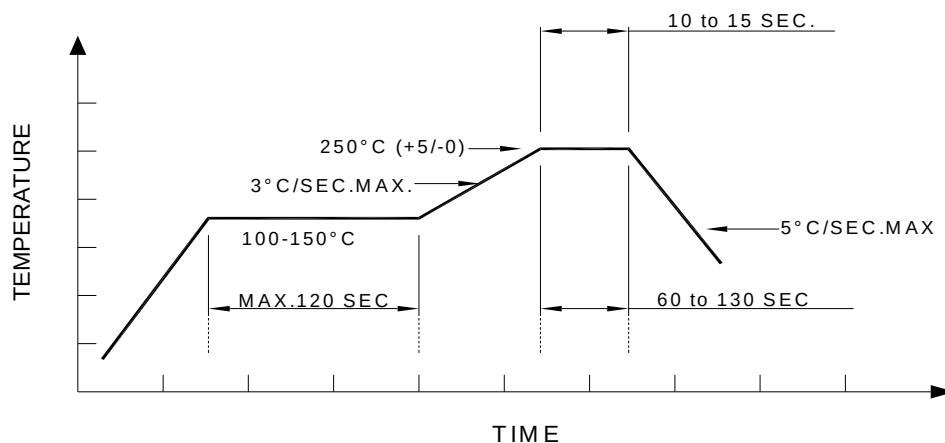
Optical Characteristics Curves



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:



Note:

All the specifications listed in this data sheet are suitable for general electronic equipment, office equipment and communication devices. Kindly consult Sales Representatives for specific reliabilities request, Forward Voltage, Luminous Intensity, Wavelength, Radiant Power or Viewing Angle.