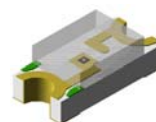


1206 Package 940nm Infrared LED

US 56H8

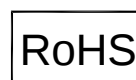
Description

The US 56H8 is used high efficiency 940nm GaAlAs materials, molded into 1206 package with clear lens. Comparing conventional GaAs/GaAs technology under similar wavelength, GaAlAs offers much higher radiant power. The viewing angle being offered is 160 degree.



Applications

- Opto-Electronic switch
- Infrared remote control unit
- Free air transmission system
- Infrared applied system



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 56H8	940	45	Water Clear	0.5	0.8	160	1.2	1.5

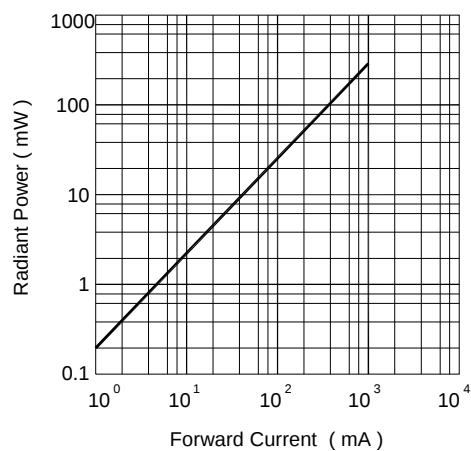
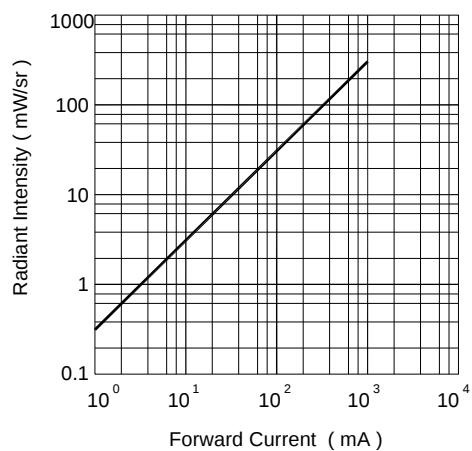
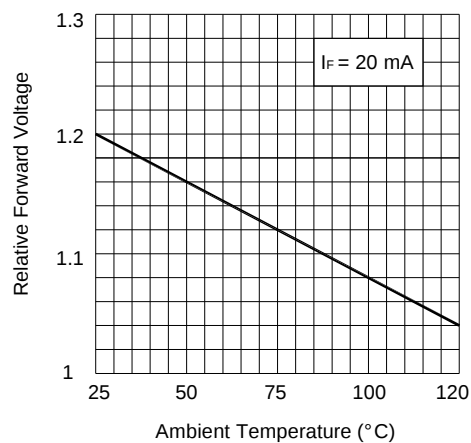
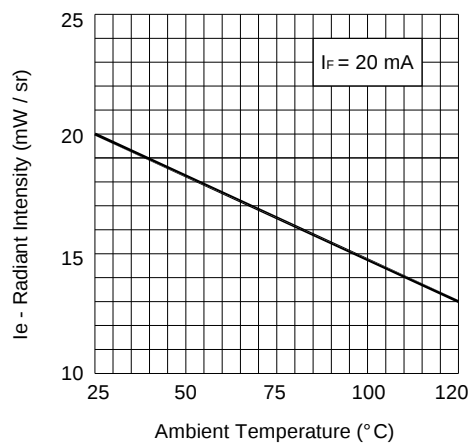
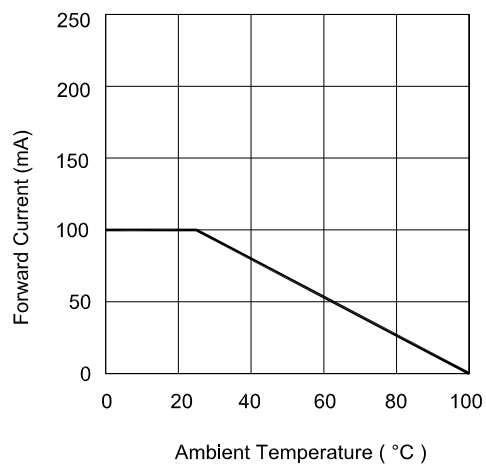
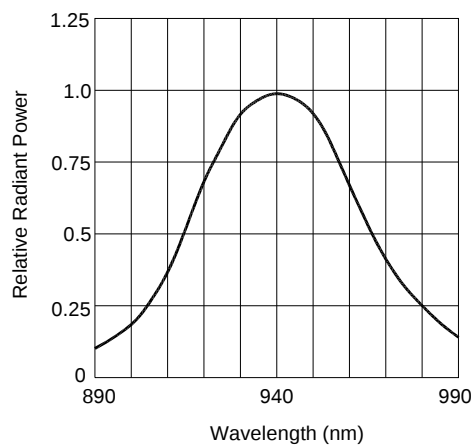
* Radiant Intensity Typ. 4.0 mW/sr @ IF=100mA, tp=100u sec, tp/T=0.01, VF @ 1.90 Max.

Absolute Maximum Ratings (at Ta=25°C)

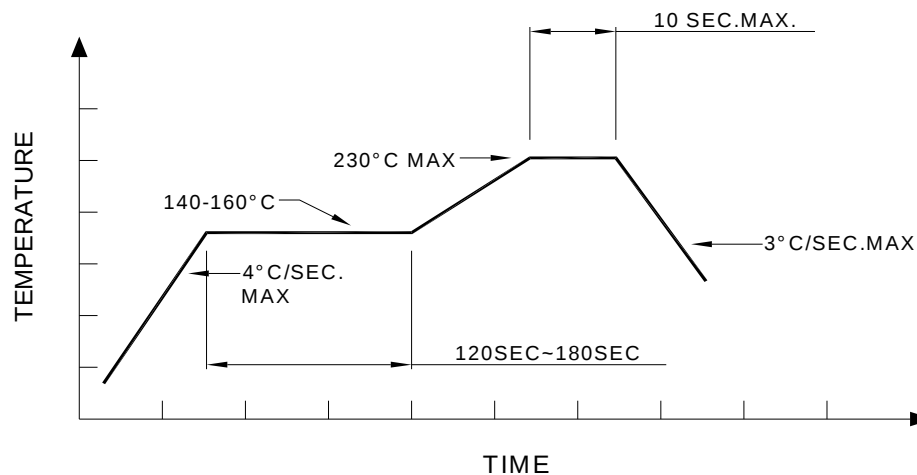
Parameter	Symbol	Rating	Unit	Condition
Continuous Forward Current	IF	65	mA	
Peak Forward Current	IFP	1.0	A	Pulse Width=100us Duty Cycle = 1%
Soldering Temperature	Tsol	260	°C	4mm from lens body less than 5 seconds
Storage Temperature	Tstg	-40 - +85	°C	
Operating Temperature	Topr	-25 - +85	°C	
Power Dissipation	PD	130	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.

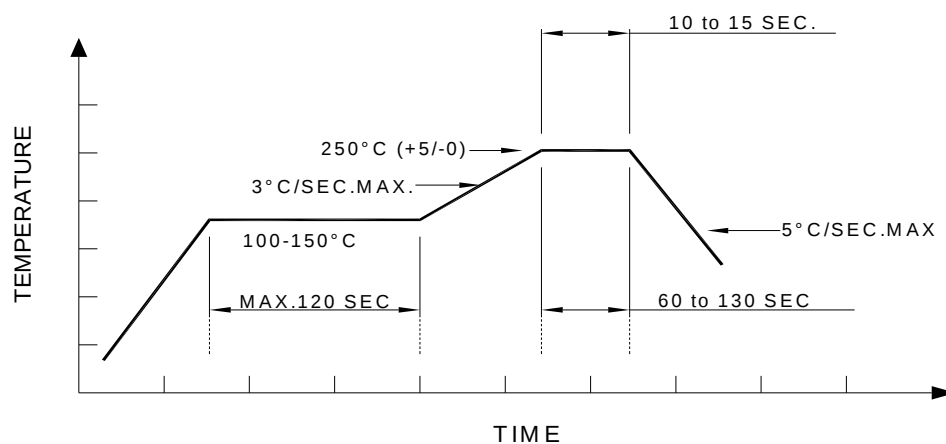
Optical Characteristics Curves



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.