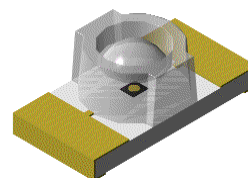


Reverse Package 940nm Infrared LED

US 86F8

Description

The US 86F8 is used high efficiency 940nm GaAlAs materials, molded into Reverse 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
- Smoke detector
- Miniature light barrier
- Infrared sensor

RoHS



Electronic Optical Characteristics (@ 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 86F8	940		Clear	0.7	1.7	160	1.2	1.5

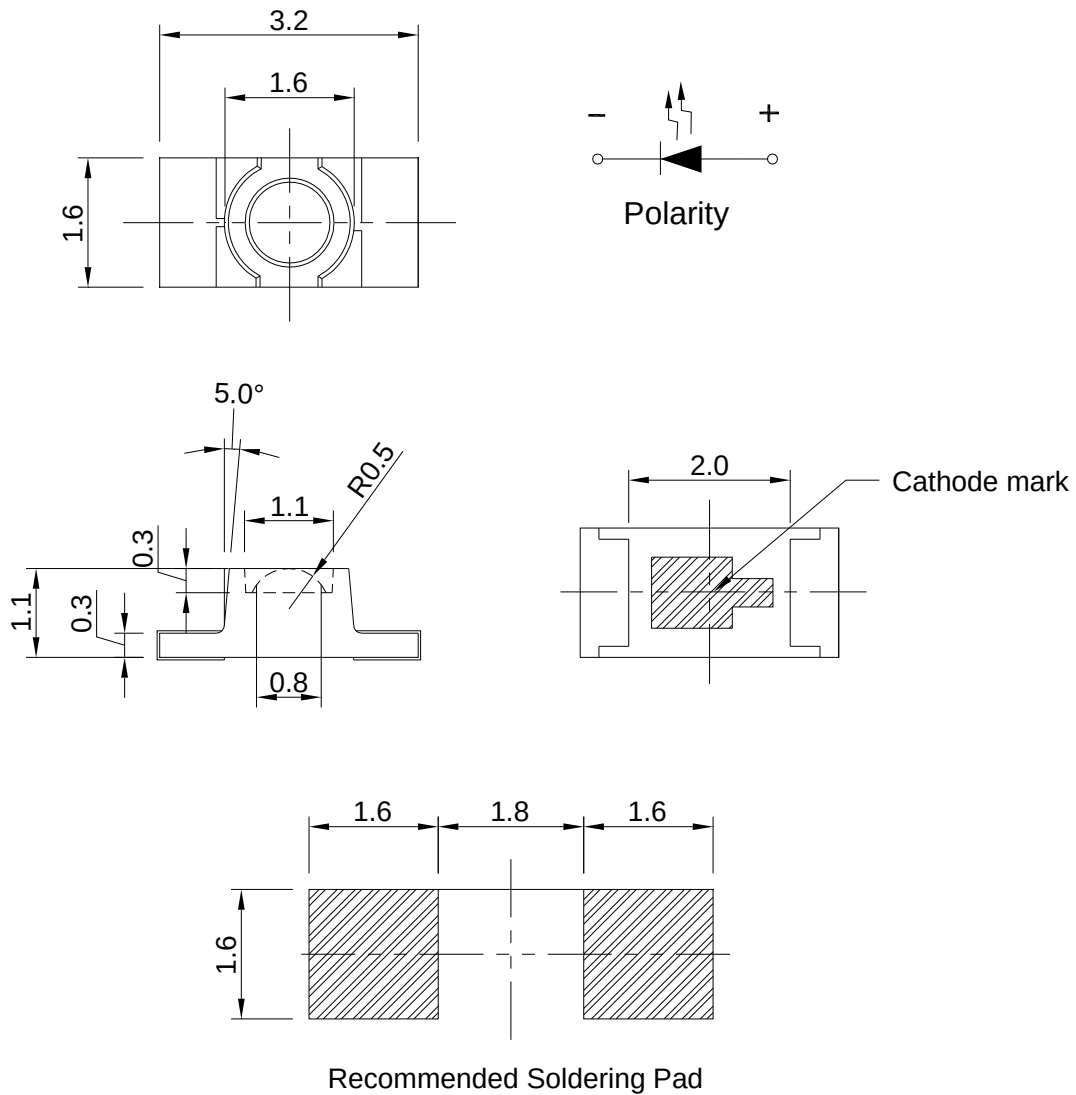
Absolute Maximum Ratings (@ Ta=25°C)

λ_p (nm)	P _D (mW)	I _F (mA)	I _{FP} (A)	I _R (uA) @VR=5V	Topr (°C)	Tstg (°C)
940nm	130	65	1.0	10	-25~+85	-40~+85

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:

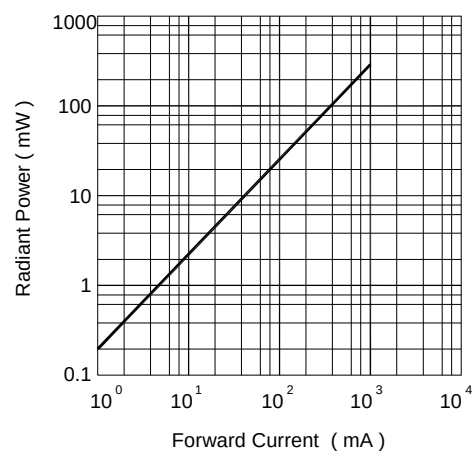
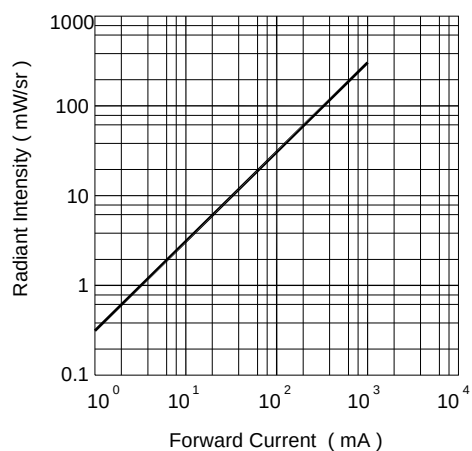
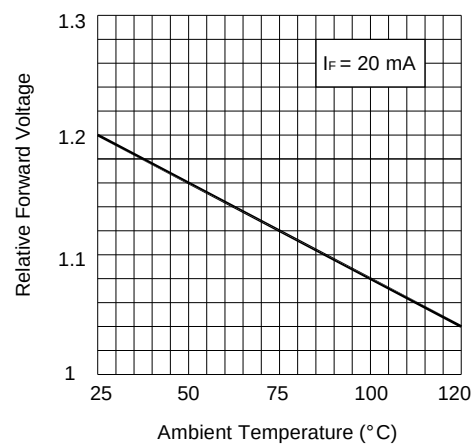
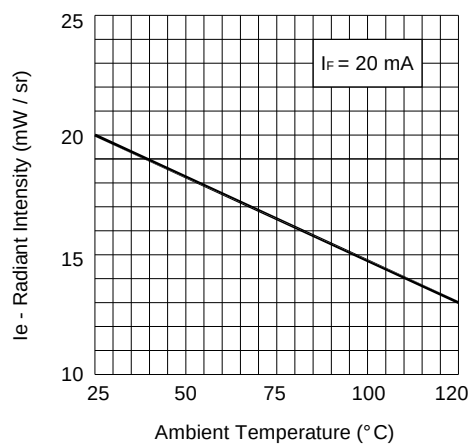
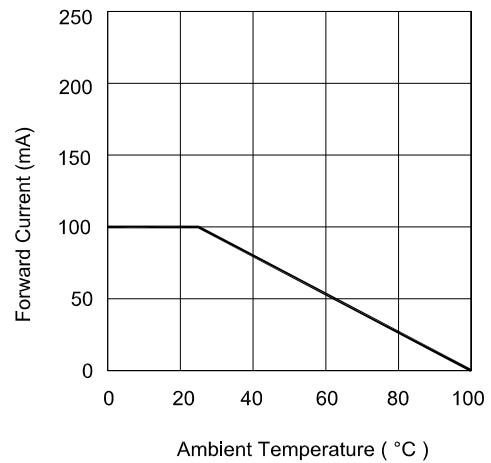
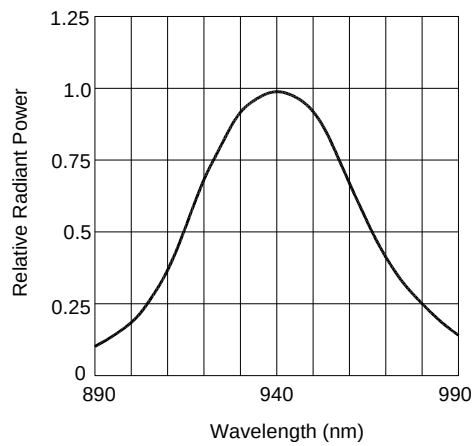
unit:mm



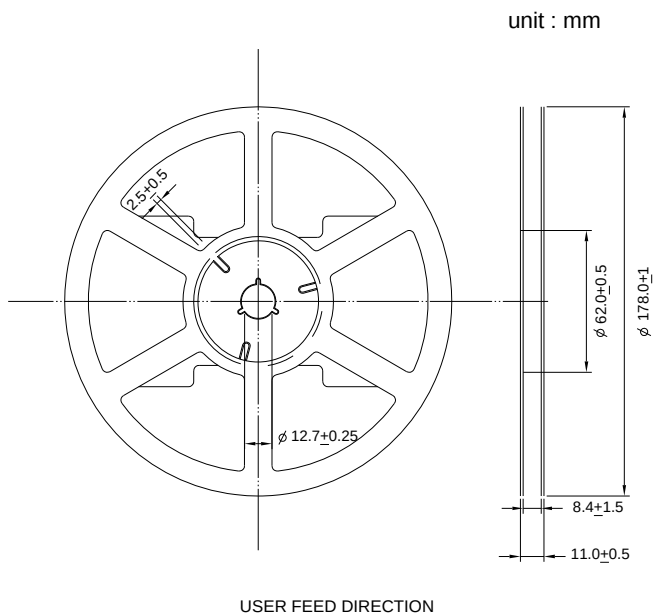
Notes:

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

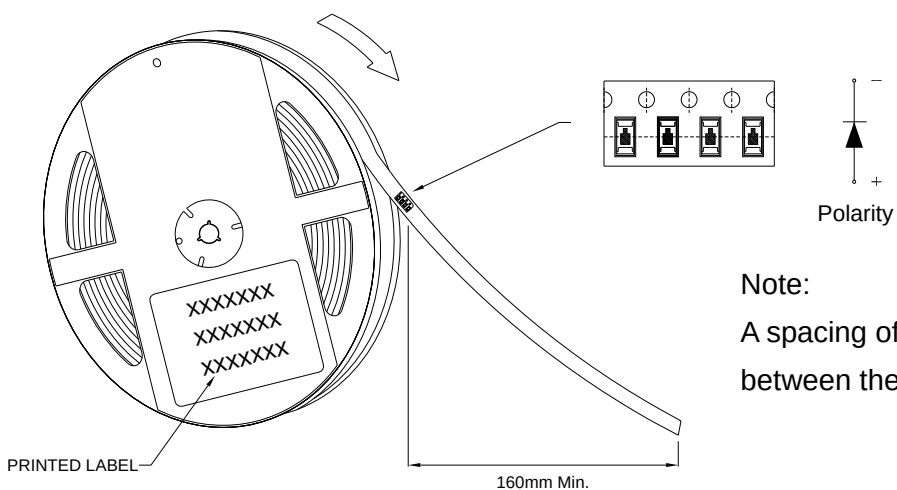


Reel Dimension:



Note:

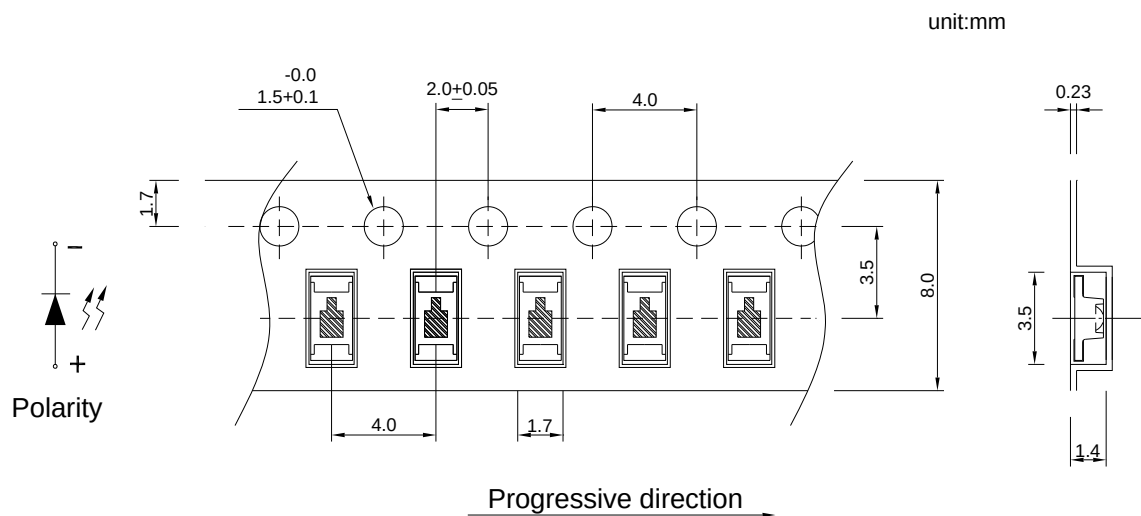
Available in 8mm carrier tape on 178mm diameter reels. (2000 pieces)



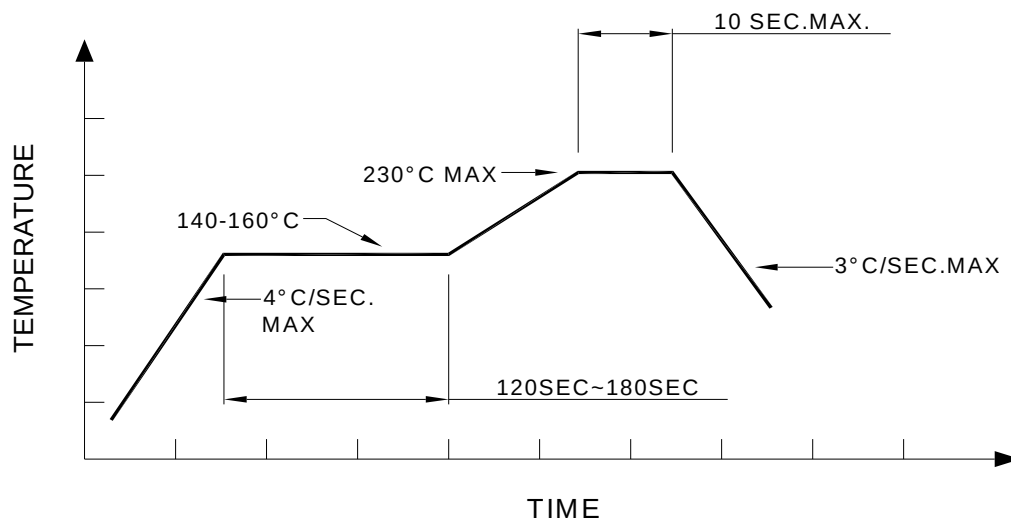
Note:

A spacing of approximately 160mm between the front edge of tape

Tape Dimension:



Recommended re-flow soldering profile:



Recommended Pb-free re-flow soldering profile:

