

3mm Round 940nm Infrared LED

UT 3648

Description

The UT 3648 used high efficiency 940nm GaAlAs materials molded into water clear lens. Comparing conventional GaAs/GaAs technology under similar wavelength, GaAlAs offers much higher radiant power. The viewing angles being offered is 35 degree. The most suitable application is Infrared Remote Control unit.



Applications

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

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.
UT 3648	940	45	Water Clear	5.0	7.0	35	1.2	1.5

* Radiant Intensity Typ. 80 mW/sr @ IF=100mA, tp=100u sec, tp/T=0.01, VF @ 1.90 Max.

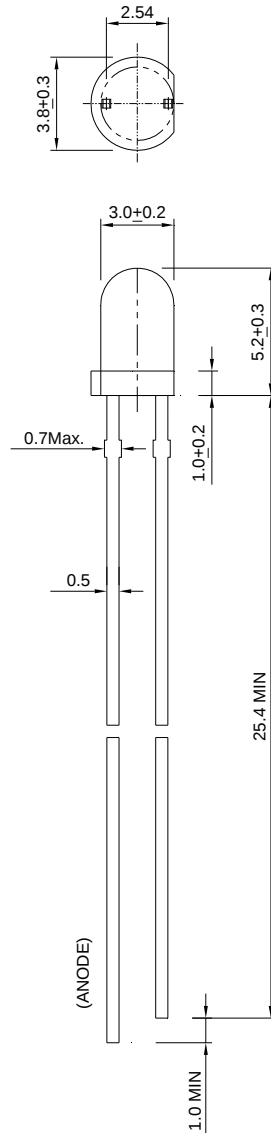
Absolute Maximum Ratings (at Ta=25°C)

Parameter	Symbol	Rating	Unit	Condition
Continuous Forward Current	IF	100	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

