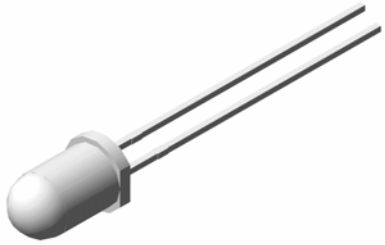
5mm Round 940nm Infrared LED

UT 5628

Description

The UT 5628 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 20 degree. The most suitable application is Infrared Remote Control unit.



RoHS

Pb
pb-free

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	VF(V)	
	λ p	λ		Min.	Typ.		Typ.	Max.
UT 5628	940	45	Water Clear	9.0	20.0	20	1.2	1.5

Radiant Intensity Typ. 85 mW/sr @ IF=100mA, tp=100u sec, tp/T=0.01, VF @ 1.90 Max.

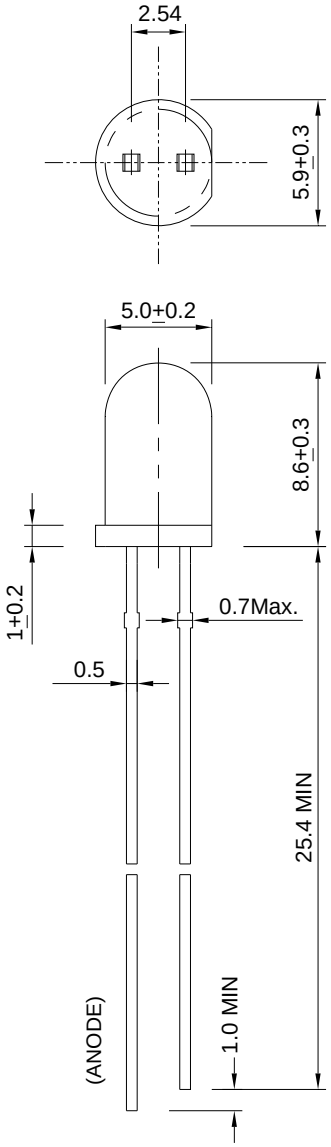
Absolute Maximum Ratings (at Ta=25)

Parameter	Symbol	Rating	Unit	Condition
Continuous Forward Current	IF	100	mA	
Peak Forward Current	IFP	1.0	A	Pulse width=100us Duty cycle = 1%
Soldering Temperature	Tsol	260		4mm from lens body 1ess than 5 seconds
Storage Temperature	Tstg	-40 - +85		
Operating Temperature	Topr	-25 - +85		
Power Dissipation	PD	100	mW	25^{O}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 ± 0.2mm unless otherwise specified.
3. Specifications are subject to change without notice.

Optical Characteristics Curves