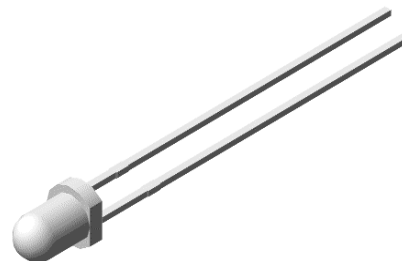


3mm Round 850nm Infrared LED

UT 3448

Description

The UT 3448 used high efficiency 850nm 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 25 degree. The most suitable application is Infrared radiation source for CMOS cameras.



Applications

- Infrared radiation source for CMOS cameras
- Free air transmission system
- Infrared applied system

RoHS



Electronic Optical Characteristics (at 20mA):

Part Number	λ (nm)		Lens Color	mW/sr		View Angle ($\theta_{1/2}$)	VF(V)	
	λ_p	$\Delta \lambda$		Min.	Typ.		Typ.	Max.
UT 3448	850	45	Water Clear	7.5	18	25	1.4	1.7

* Radiant Intensity Typ. 90 mW/sr @ $I_F=100mA$, Pulse Width $\leq 100\mu sec$, Duty $\leq 1\%$, VF @ 2.40V Max.

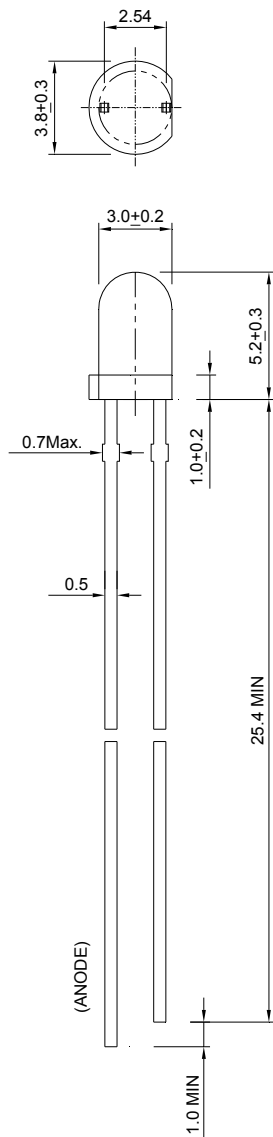
Absolute Maximum Ratings (at $T_a=25^\circ C$)

Parameter	Symbol	Rating	Unit	Condition
Continuous Forward Current	I_F	100	mA	
Peak Forward Current	I_P	1.0	A	Pulse width=100us Duty Cycle = 1%
Soldering Temperature	T_{sol}	260	$^\circ C$	4mm from lens body less than 5 seconds
Storage Temperature	T_{stg}	-40 - +85	$^\circ C$	
Operating Temperature	T_{opr}	-25 - +85	$^\circ C$	
Power Dissipation	P_D	150	mW	$25^\circ C$ 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

