TOL-502URNC

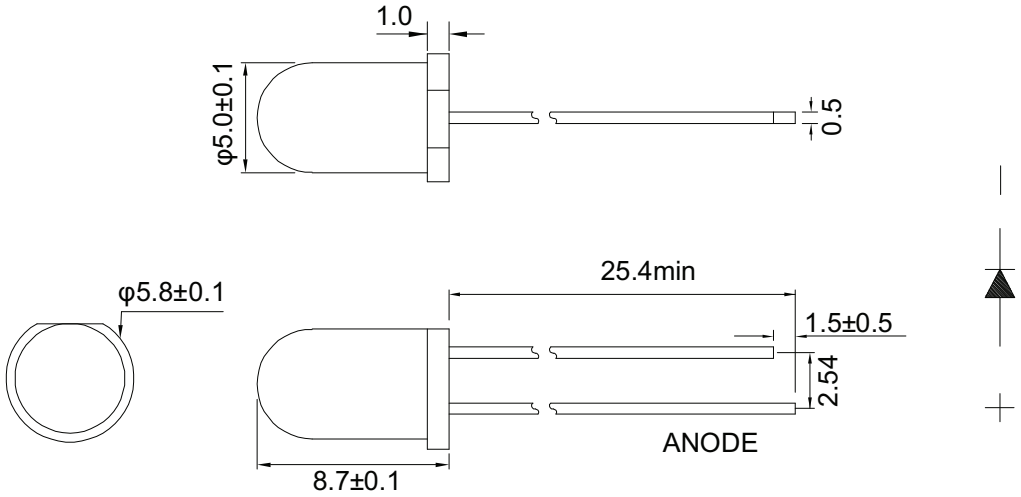
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-502URNC	AlGaInP	Ultra Red	Water Clear

Features

- I.C. compatible.
- Low power consumption.
- Compatible with wave soldering process.
- 5mm diameter package.
- Long life, stable and reliable.
- RoHS compliant.

Dimensions



Notes:
1. All dimensions are in millimeter.
2. Tolerance is ±0.25mm unless otherwise noted.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Power Dissipation (Tamb≤60°C)	75	mW
Continuous Forward Current	20	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +100°C	
Storage Temperature Range	-40°C to +100°C	
Wave Soldering Profile For Lead Free Soldering	260°C for 5 Sec	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv		3800		mcd	I_F=20mA
Viewing Angle	$2\theta_{1/2}$		20		deg	I_F=20mA
Dominant Wavelength	λ_d		630		nm	I_F=20mA
Spectral Line Half-Width	△λ		15		nm	I_F=20mA
Forward Voltage	V_F		2.0		V	I_F=20mA
Reverse Current	I_R			10	μA	V_R=5V

* Please refer to CIE 1931 chromaticity diagram.

Notes: Above specification may be changed without notices.

Bin Code List for Reference

Luminous Intensity		Unit：mcd@20mA
Bin Code	Min	Max
A43	1930	2410
A44	2410	3000
A45	3000	3800
A46	3800	4800
A47	4800	6000
A48	6000	7500

Tolerance of Luminous Intensity on each bin is ±15%.

Forward Voltage		Unit：V@20mA
Bin Code	Min	Max
V08	1.8	2.0
V06	2.0	2.2
V07	2.2	2.4

Tolerance for each Forward Voltage Bin is ±0.1V.

Dominant Wavelength		Unit：nm@20mA
Bin Code	Min	Max
104	626	628
105	628	630
106	630	632
107	632	634

Tolerance of Dominant Wavelength on each bin is ±1nm

Notes: Above specification may be changed without notices.