

# TOL-502UGAD

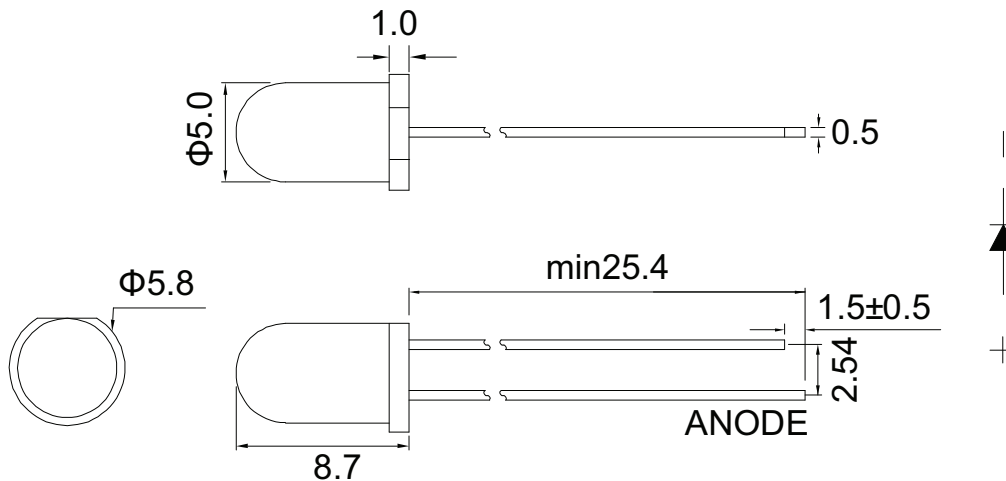
## Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-502UGAD	AlGaInP	Ultra Green	Green diffused

### 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  $\pm 0.25\text{mm}$  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 +80°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		202		mcd	I <sub>F</sub> =20mA
Viewing Angle	2θ <sub>1/2</sub>		20		deg	I <sub>F</sub> =20mA
Dominant Wavelength	λ <sub>d</sub>		568		nm	I <sub>F</sub> =20mA
Peak Emission Wavelength	λ <sub>p</sub>		570		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		15		nm	I <sub>F</sub> =20mA
Forward Voltage	V <sub>F</sub>		2.1		V	I <sub>F</sub> =20mA
Reverse Current	I <sub>R</sub>			10	μA	V <sub>R</sub> =5V

\* Please refer to CIE 1931 chromaticity diagram.

## Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
B30	103	129
B31	129	162
B32	162	202
B33	202	252
B34	252	316

Tolerance of Luminous Intensity on each bin is  $\pm 11\%$ .

Dominant Wavelength		Unit : nm@20mA
Bin Code	Min	Max
73	564	566
74	566	568
75	568	570
76	570	572
77	572	574

Tolerance of Dominant Wavelength on each bin is  $\pm 1\text{nm}$ .

Forward Voltage		Unit : V@20mA
Bin Code	Min	Max
V05	1.8	2.0
V06	2.0	2.2
V07	2.2	2.4

Tolerance of Forward Voltage on each bin is  $\pm 0.1\text{V}$ .