

TOL-505UY5D

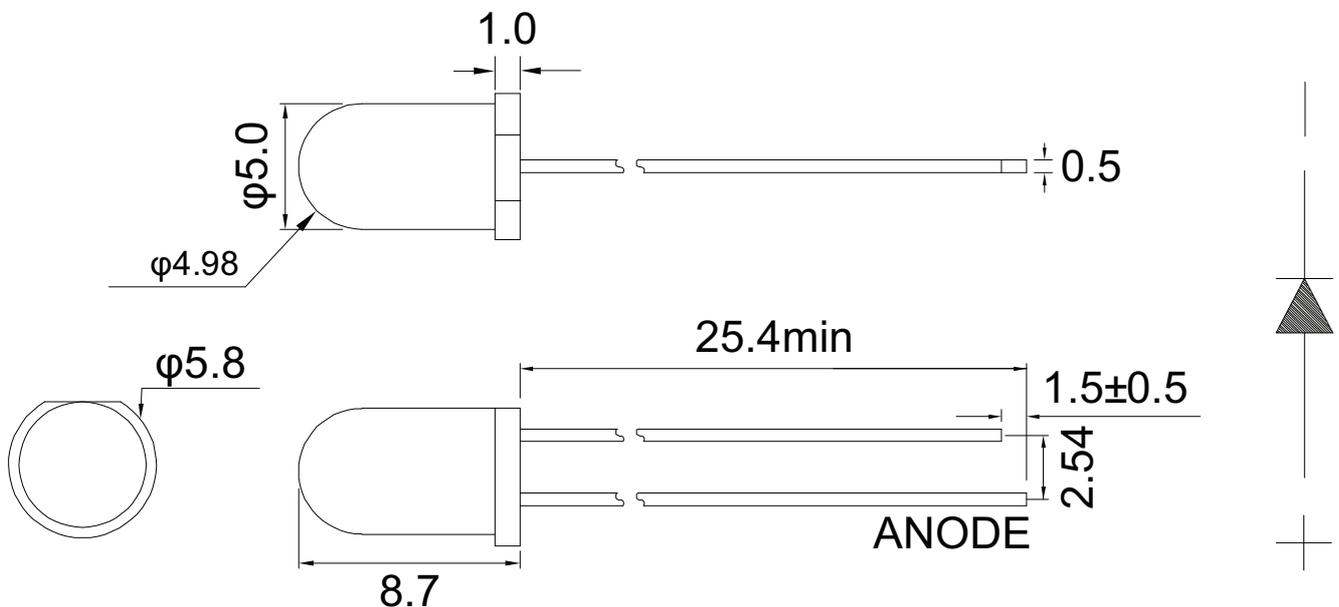
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-505UY5D	AlGaInP	Ultra Yellow	Yellow 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 ± 0.25 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 +85°C	
Storage Temperature Range	-40°C to +105°C	
Wave Soldering Profile For Lead-free Soldering	260°C, 5 Seconds	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5.8	12		mcd	I _F =5mA
		25	50		mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		50		deg	I _F =5mA
Dominant Wavelength	λ _d	584	590	594	nm	I _F =5mA
Peak Emission Wavelength	λ _p		595		nm	I _F =5mA
Spectral Line Half-Width	Δλ		15		nm	I _F =5mA
Forward Voltage	V _F	1.7	1.9	2.15	V	I _F =5mA
		1.8	2.1	2.4	V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =5V

* Please refer to CIE 1931 chromaticity diagram.

Bin Code List for Reference

Luminous Intensity		Unit : mcd@5mA
Bin Code	Min	Max
B12	5.8	8.1
B13	8.1	11.3
B14	11.3	15.9
B15	15.9	22.2
B16	22.2	31.1

Tolerance of Luminous Intensity on each bin is $\pm 15\%$.

Dominant Wavelength		Unit : nm@5mA
Bin Code	Min	Max
83	584	586
84	586	588
85	588	590
86	590	592
87	592	594

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

Forward Voltage		Unit : V@5mA
Bin Code	Min	Max
V06	1.70	1.85
V07	1.85	2.00
V08	2.00	2.15

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