TOL-304UE5D-ST10

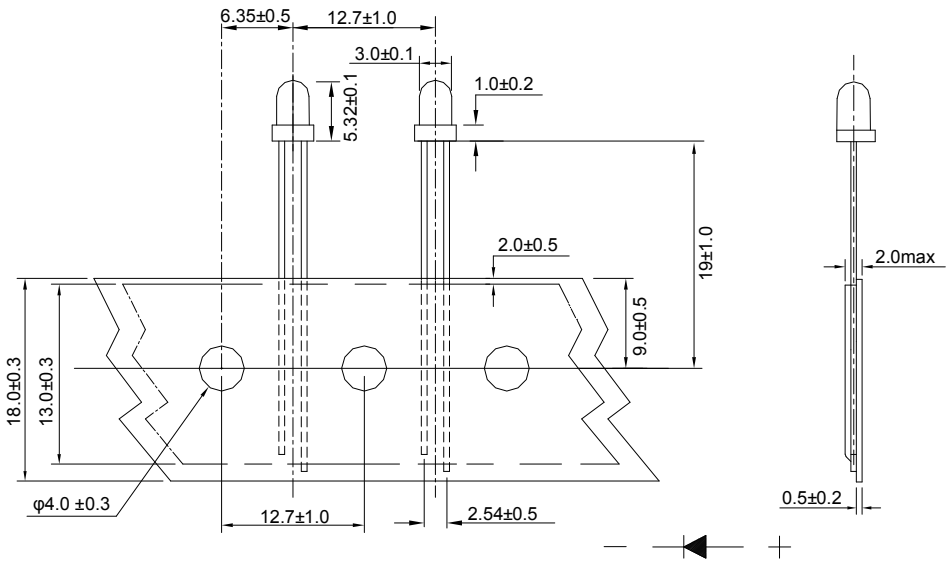
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-304UE5D-ST10	AlGaInP	Ultra Red	Red Diffused

Features

- I.C. compatible.
- Low power consumption.
- Compatible with wave soldering process.
- 3mm 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 +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		40		mcd	I_F=20mA
Viewing Angle	$2\theta_{1/2}$		40		deg	I_F=20mA
Dominant Wavelength	λ_d		625		nm	I_F=20mA
Spectral Line Half-Width	△λ		18		nm	I_F=20mA
Forward Voltage	VF		2.0		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@20mA
Bin Code	Min	Max
A24	27.1	33.9
A25	33.9	42.4
A26	42.4	53
A27	53	66
A28	66	83

Tolerance of Luminous Intensity on each bin is ±11%.

Dominant Wavelength		Unit：nm@20mA
Bin Code	Min	Max
101	620	622
102	622	624
103	624	626
104	626	628
105	628	630

Tolerance of Dominant Wavelength on each bin is ±1nm

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 for each Forward Voltage Bin is ±0.1V