

TOL-52tUELK-ST11

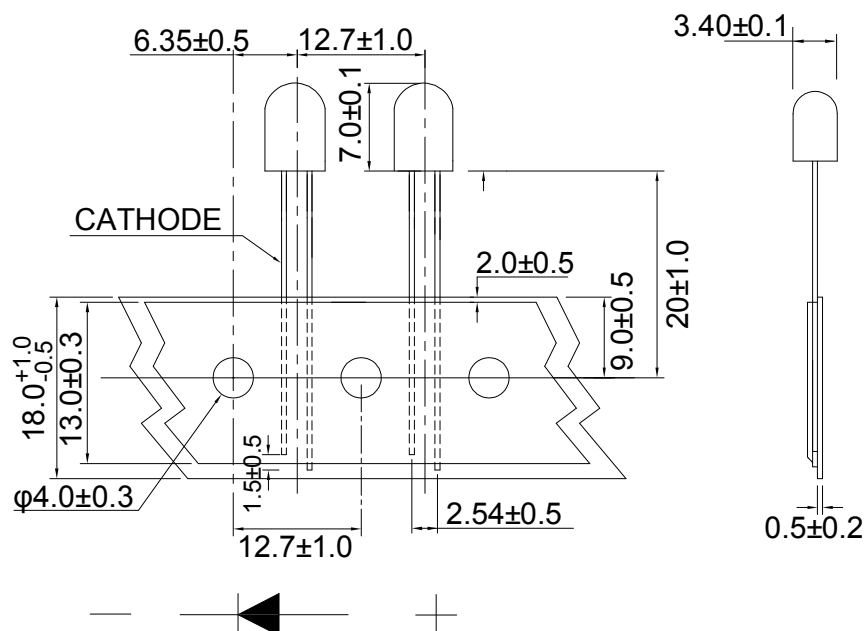
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-52tUELK-ST11	AlGaInP	Red	Red 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	105	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	I _v		980		mcd	I _F =20mA
Viewing Angle	2θ _{1/2} -H-H		80		deg	I _F =20mA
	2θ _{1-2V} -V		35		deg	I _F =20mA
Dominant Wavelength	λ _d		625		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Forward Voltage	V _F		2.0	2.4	V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =5V

Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
A38	620	780
A39	780	980
A40	980	1230
A41	1230	1540

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

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 $\pm 1\text{nm}$

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 for each Forward Voltage Bin is $\pm 0.1\text{V}$