

TOL-304UBDW

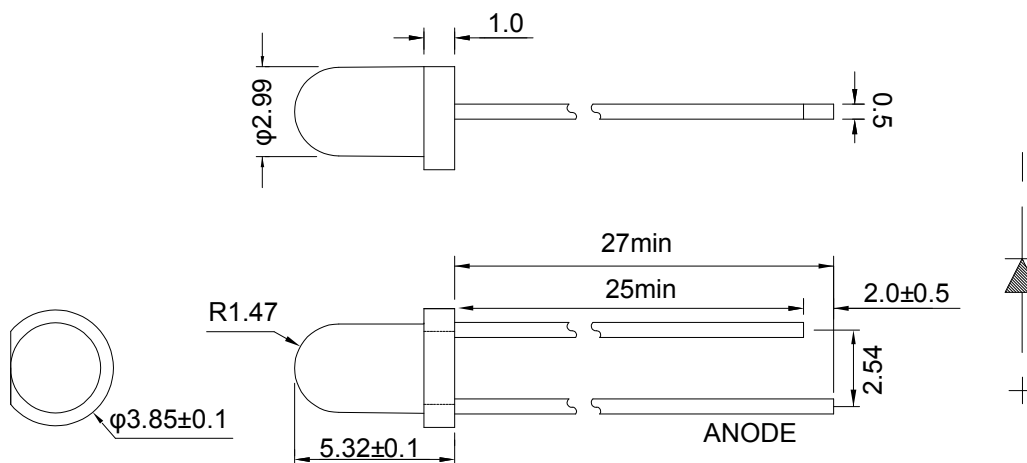
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-304UBDW	GaP	Blue	White 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 ± 0.25 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)	150	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	
Solder ability	235±5 °C for 3±0.5 sec	
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		493		mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		40		deg	I _F =20mA
Dominant Wavelength	λ _d		470		nm	I _F =20mA
peak wavelength	λ _p		465		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Forward Voltage	V _F		3.2		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	
B35	316	394	
B36	394	493	
B37	493	620	
B38	620	780	
B40	780	980	

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

Forward Voltage		Unit : V@20mA	
Bin Code	Min	Max	
V10	2.8	3.0	
V11	3.0	3.2	
V12	3.2	3.4	
V13	3.4	3.6	

Tolerance for each Forward Voltage Bin is $\pm 0.1V$.

Dominant Wavelength		Unit: nm@20mA	
Bin Code	Min	Max	
23	464	466	
24	466	468	
25	468	470	
26	470	472	
27	472	474	

Tolerance of Dominant Wavelength on each bin is $\pm 1nm$