

TOL-50bUGdCUa-G5B

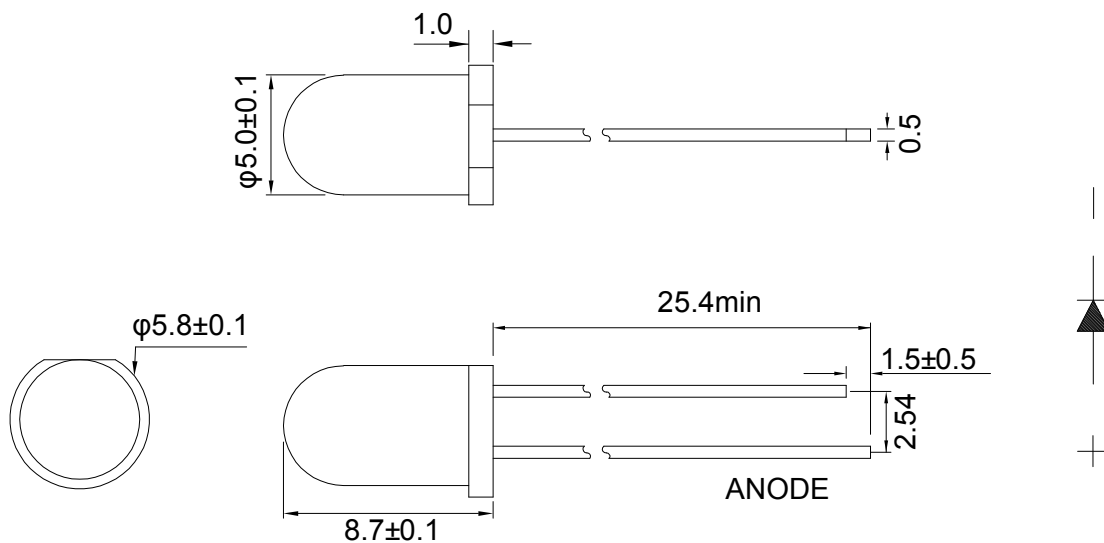
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-50bUGdCUa-G5B	InGaN	Bluish Green	Water Clear

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 notes.

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	30	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		9400		mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		20		deg	I _F =20mA
Dominant Wavelength	λ _d		505		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Forward Voltage	V _F		3.0		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
B49	7500	9400
B50	9400	11800
B51	11800	14800

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

Dominant Wavelength		Unit : nm@20mA
Bin Code	Min	Max
41	500	502
42	502	504
43	504	506
44	506	508
45	508	510

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

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 $\pm 0.1\text{V}$.