

TOL-Z0aBGdUC

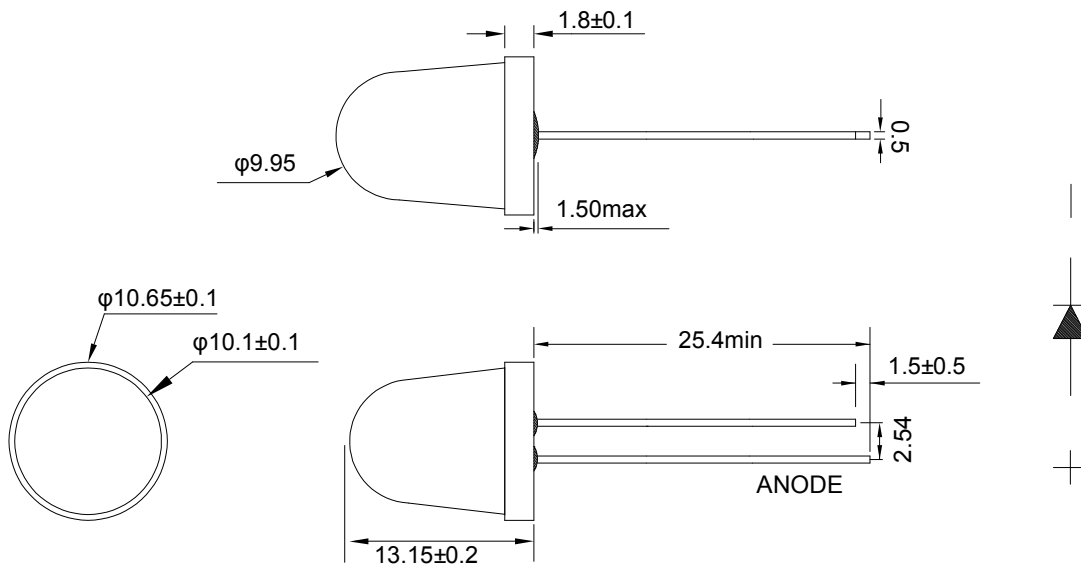
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-Z0aBGdUC	AlGaInP	Blue 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 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		11800		mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$		15		deg	$I_F=20\text{mA}$
Dominant Wavelength	λ_d		505		nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		36		nm	$I_F=20\text{mA}$
Forward Voltage	V_F		3.0		V	$I_F=20\text{mA}$
Reverse Current	I_R			<10	μA	$V_R=5\text{V}$

Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA	
Bin Code	Min	Max	
B49	7500	9400	
B50	9400	11800	
B51	11800	14800	
B52	14800	18500	

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

Dominant Wavelength		Unit : nm@20mA
Bin Code	Min	Max
500505	500	505
505510	505	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 $\pm 0.1\text{V}$