

TOL- 302SWQC-001

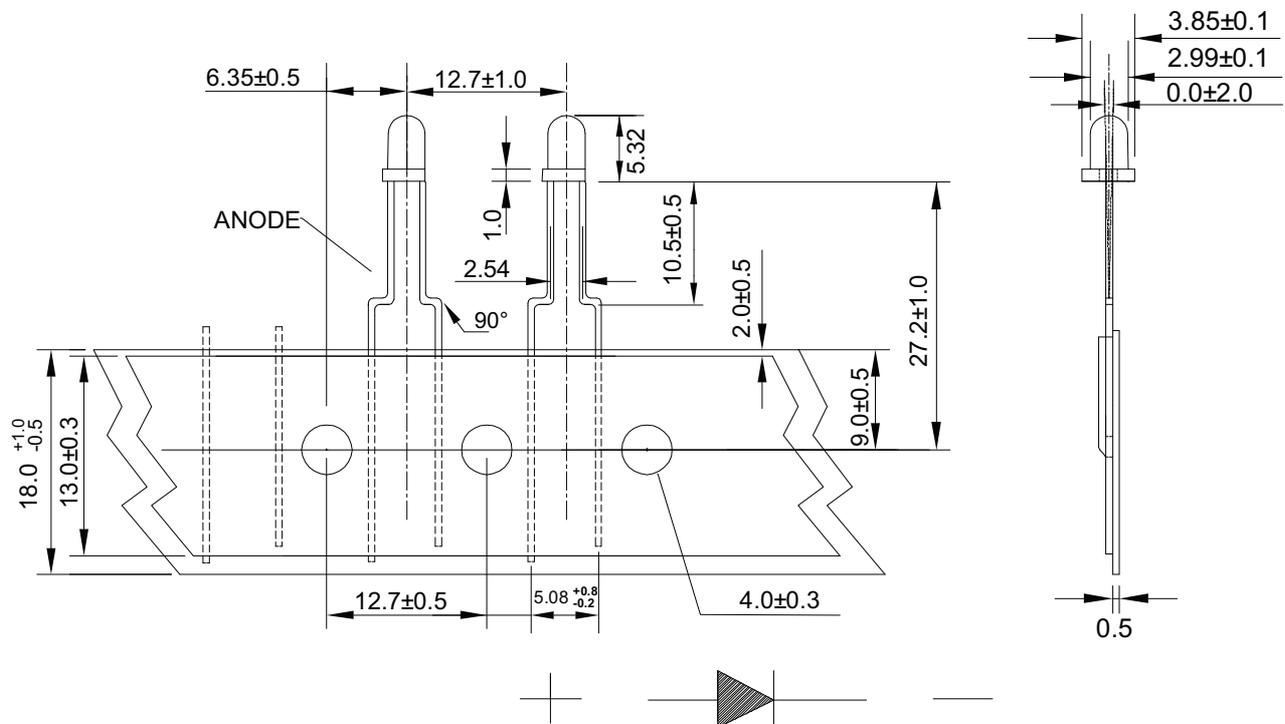
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-302SWQC-001	InGaN/GaN	Snow White	Water Clear

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)	100	mA
Power Dissipation (Tamb≤60°C)	105	mW
Continuous Forward Current	20	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-40°C to +105°C	
Wave Soldering Profile For Lead Free Soldering	260°C, 5 Seconds	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	7500	9000	14800	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		25		deg	I _F =20mA
Correlated Color Temperature	Tc	6000	7500	11000	K	I _F =20mA
Forward Voltage	V _F	2.6	3.2	3.8	V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =20V
Chromaticity Coordinates	X		0.30			I _F =20mA
	Y		0.31			I _F =20mA

* Please refer to CIE 1931 chromaticity diagram.

Bin Code List for Reference

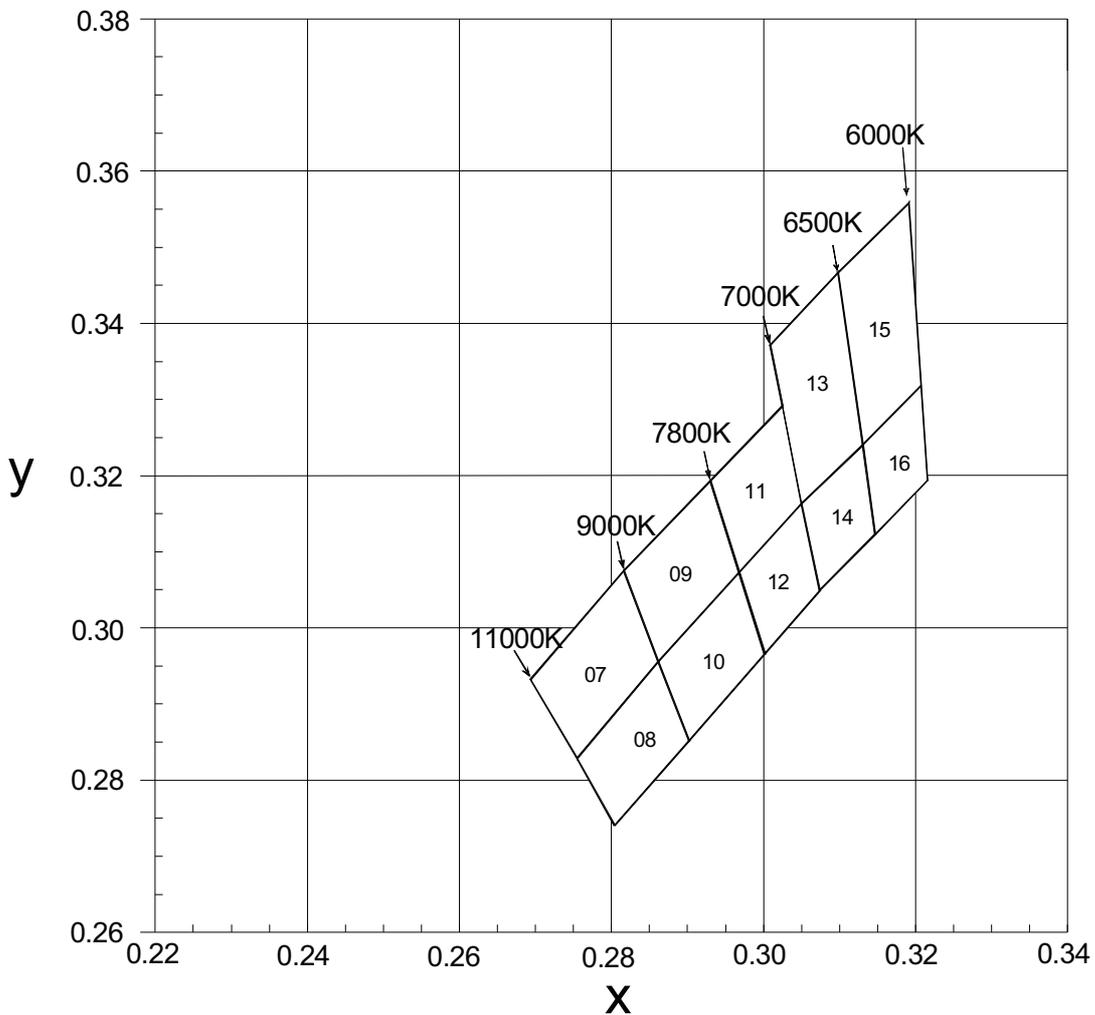
Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
B49	7500	9400
B50	9400	11800
B51	11800	14800

Tolerance of Luminous Intensity on each bin is ±15%.

Forward Voltage		Unit : V@20mA	
Bin Code	Min	Max	
V4	2.6	3.0	
V5	3.0	3.4	
V6	3.4	3.8	

Tolerance for each Forward Voltage Bin is $\pm 0.05V$.

Chromaticity Diagram



*Color Coordinates Measurement allowance is ± 0.01 .