TOL-503BGPC-ST11

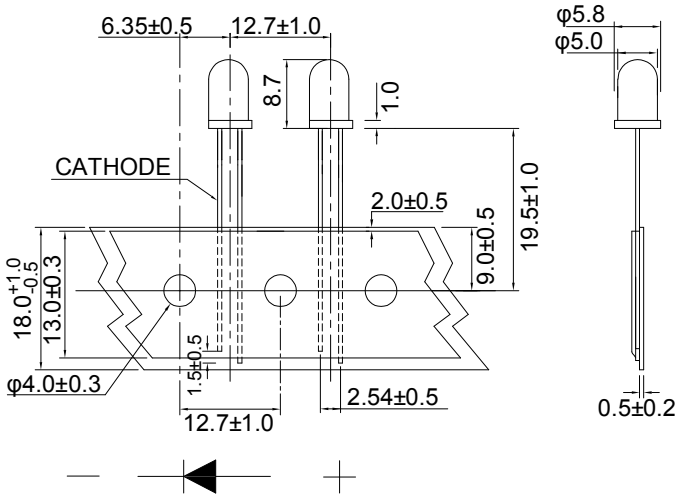
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-503BGPC-ST11	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 ±0.25mm 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 foe 5 Sec	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv		9400		mcd	I_F=20mA
Viewing Angle	$2\theta_{1/2}$		30		deg	I_F=20mA
Dominant Wavelength	λ_d		505		nm	I_F=20mA
Spectral Line Half-Width	$\triangle\lambda$		36		nm	I_F=20mA
Forward Voltage	V_F		3.0		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
B48	6000	7500
B49	7500	9400
B50	9400	11800
B51	11800	14800

Tolerance of Luminous Intensity on each bin is ±11%

Dominant Wavelength		Unit：nm@20mA
Bin Code	Min	Max
500505	500	505
505510	505	510

Tolerance of Dominant Wavelength on each bin is ±1nm

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 ±0.1V