

TOL-503UYQC

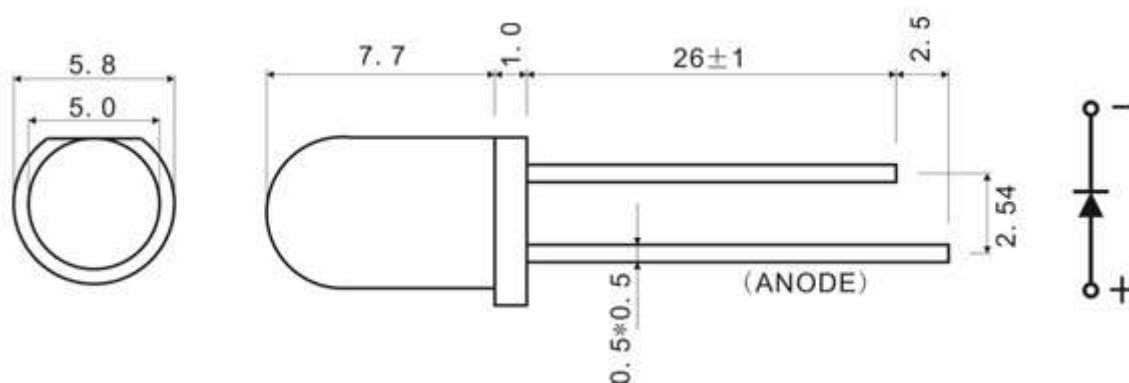
Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-503UYQC	AlGaInP	Ultra Yellow	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
Power Dissipation ($T_{amb} \leq 60^{\circ}\text{C}$)	75	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	4800	-	11800	mcd	$I_F=20\text{mA}$
Viewing Angle	$2\theta_{1/2}$	30	-	-	deg	$I_F=20\text{mA}$
Dominant Wavelength	λ_d	586	-	596	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	-	18	-	nm	$I_F=20\text{mA}$
Forward Voltage	V_F	1.8	-	2.4	V	$I_F=20\text{mA}$
Reverse Current	I_R	-	-	10	μA	$V_R=5\text{V}$

* Please refer to CIE 1931 chromaticity diagram.

Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
B47	4800	6000
B48	6000	7500
B49	7500	9400
B50	9400	11800

Tolerance of Luminous Intensity on each bin is $\pm 15\%$.

Dominant Wavelength		Unit : nm@20mA
Bin Code	Min	Max
84	586	588
85	588	590
86	590	592
87	592	594
88	594	596

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

Forward Voltage		Unit : V@20mA
Bin Code	Min	Max
V05	1.8	2.0
V06	2.0	2.2
V07	2.2	2.4

.Tolerance of Forward Voltage on each bin is $\pm 0.1\text{V}$.

Package Description



FIG.1



FIG.2

