

Lamp LED

Part Number	Chip		Lens Color
	Material	Source Color	
TOL-31xMRaCAa-U6S-FT17-11	AlGaInP	Ultra Red	Water Clear

- I.C. compatible.
- Low power consumption.
- Compatible with wave soldering process.
- 3.1mm diameter package.
- Long life, stable and reliable.
- RoHS compliant.

[illegible]

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	90	mW
Continuous Forward Current	30	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	I _v	81	150	201	mcd	I _F =20mA
Viewing Angle	2θ _{1/2}		50		deg	I _F =20mA
Dominant Wavelength	λ _d	635	640	645	nm	I _F =20mA
Peak Emission Wavelength	λ _p		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Forward Voltage	V _F		2.0	2.5	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
A55	81	91
A56	91	102
A57	102	114
A58	114	128
A59	128	143
A60	143	160
A61	160	180
A62	180	201

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