

VTR-I-03R130 3mm Red Round LED Diode

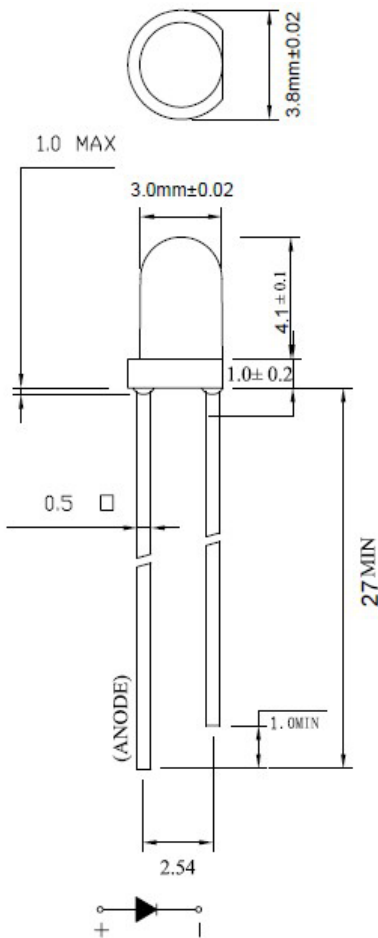
Application: Mobile phones * LCD Backlighting * Marker Lights * Auto Instrument

Absolute Maximum Ratings at TA=25℃			Electrical Optical Characteristics at TA=25℃						
Parameter	Maximum Rating	Unit	Parameter	Symbol	Min	Typ.	Max.	Unit	Test Condition
Power Dissipation	110	mW	Luminous Intensity	Iv	8000		1000	mcd	IF=20mA
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	50	mA	Viewing Angle	2θ1/2		30		deg	
DC Forward Current	25	mA	Peak Emission Wavelength	λp		635		nm	
Reverse Voltage	5	V	Dominant Wavelength	λd	630		640	nm	IF=20mA
Operating Temperature Range	-20℃ to +80℃		Spectral Line Half-Width	Δλ		30		nm	
Storage Temperature Range	-40℃ to +100℃		Forward Voltage	VF	3.0		3.2	V	IF=20mA
Lead Soldering Temperature [1.6mm(.063") From Body]	260℃ for 5 seconds		Reverse Current	IR			40	μA	VR=5V

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates CIE(Commission International Dd L Eclairage) eye-response curve.

2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. The I_v guarantee should be added $\pm 15\%$.

Package Dimensions:



Lens	Material	Emitting Color
Water.Clear	InGaN	Red

Notes

1. All dimensions are in millimeters.
2. Tolerance is $\pm 0.25\text{mm}$ unless otherwise noted.
3. Protruded resin under flange is 1.0mm max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.