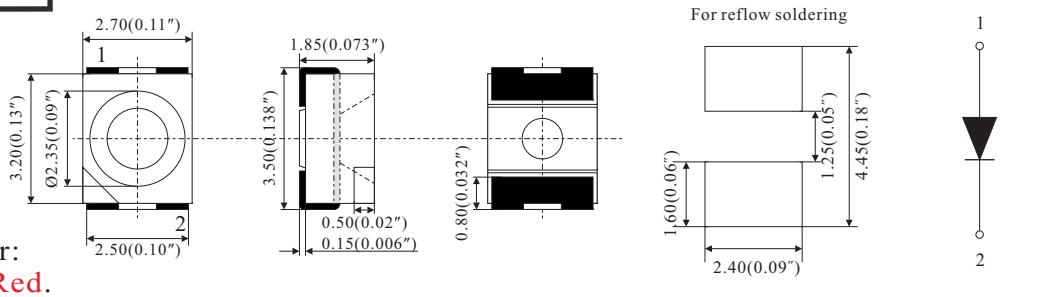
TOYO LED ELECTRONICS LIMITED

http://www.toyo-led.com e-mail: sales@toyo-led.com

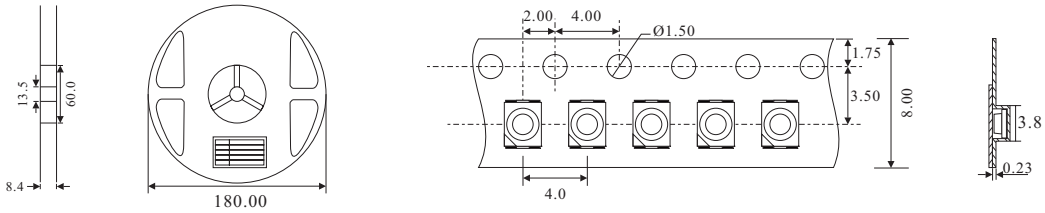
PACKAGE DIMENSION

TY-1311UR1

Pb-free



Features:
1. Emitted Color:
   Ultra Bright Red.
2. Lens Appearance:
   Water Clear



Absolute Maximum Ratings at T_A=25°C

Parameter	Symbol	Maximum Rating	Units
Power Dissipation	Pd	120	mW
Forward Current	I_F	30	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width.)	I_{FP}	125	mA
Reverse Voltage	V_R	5	V
Operating Temperature	Topr	-20°C to +80°C	
Storage Temperature	Tstg	-20°C to +80°C	

Electrical / Optical Characteristics at T_A=25°C

Parameter	Symbol	MIN.	TYP.	MAX.	Units	Test Condition
Forward Voltage	V_f	1.80	2.00	2.30	V	I_F=20mA
Luminous Intensity	Iv	100	-	-	mcd	I_F=20mA
Reverse Current	I_R	-	-	10	uA	V_R=5V
Peak Wavelength	λp	-	630	635	nm	I_F=20mA
Dominant Wavelength	λd	-	628	-	nm	I_F=20mA
Spectral Line Half-width	Δλ	-	40	-	nm	I_F=20mA
Viewing Angle	2θ½	-	120	-	deg	I_F=20mA

1. All dimension are in millimeters (inches).
2. Tolerance is ±0.10mm (0.004″) unless otherwise specified.
3. Luminous intensity tolerance is ±10%