



# TOYO LED ELECTRONICS LIMITED

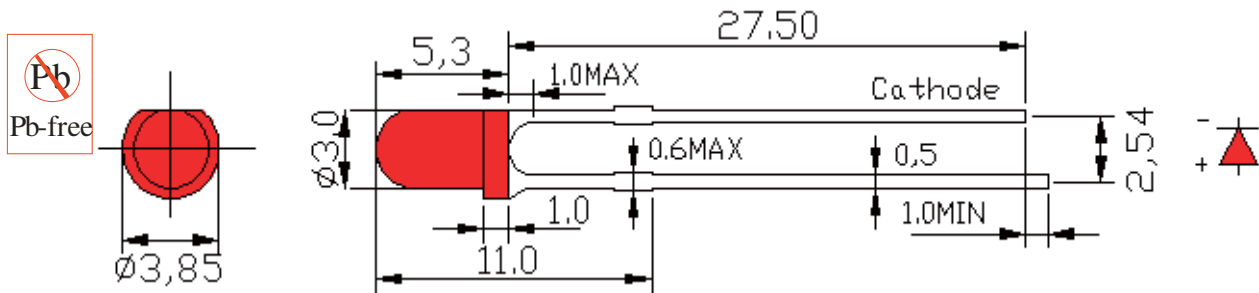
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**P/N: TY-30UR1D50-150**

3 mm Round Type LEDs Series

## BULK & PACKING DIMENSIONS



### Selection Guide

Part No.	Dice		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (2θ1/2)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-30UR1D50-150	AlGaInP	Ultra Red	Red Diffused	100	150	220	50°

### Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	72	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	100	mA
Continuous Forward Current	IFmax	30	mA
Reverse Voltage	VR	5	V
Capacitance	C	95	pF
Operating / Storage Temperature Range	Topr / Tstg	-40°C to +85°C	
Lead Solder Temperature	Tsol	260°C for 3 seconds	

### Electrical / Optical Characteristics(Ta=25C°)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λp	-	630	-	nm	IF=20mA
Dominant Wavelength	λd	628	629	633	nm	IF=20mA
Spectral Line Coordinates	Δλ	-	25	-		IF=20mA
Forward Voltage	VF	1.93	2.00	2.13	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

#### NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is ±0.25mm(0.01") especially other specified; Luminous intensity tolerance is ±10%;
- Dominant Emission Wavelength tolerance is ±5%; Specifications are subject to change without notice.



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### ■ Typical Electro-Optical Characteristic Curve:

FIG. 1 Forward Current Vs. Forward Voltage

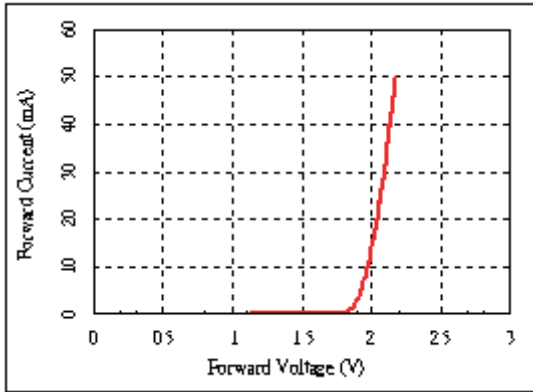


FIG. 2 Relative Intensity Vs. Forward Current

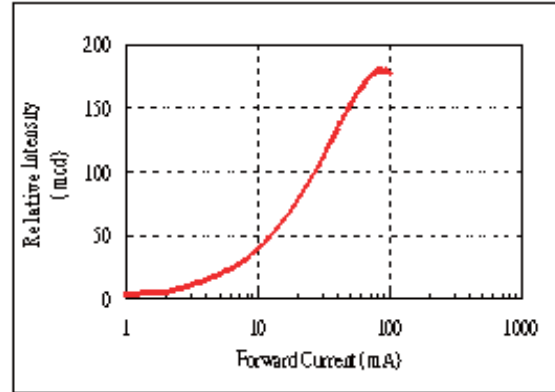


FIG. 3 Forward Voltage Vs. Temperature

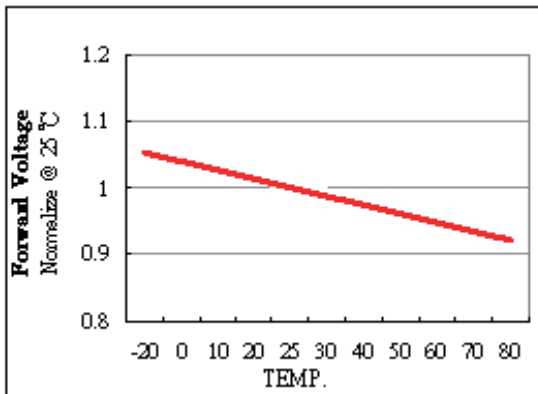


FIG. 4 Relative Intensity Vs. Temperature

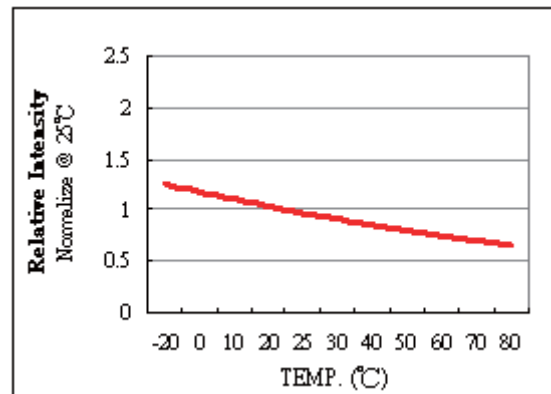
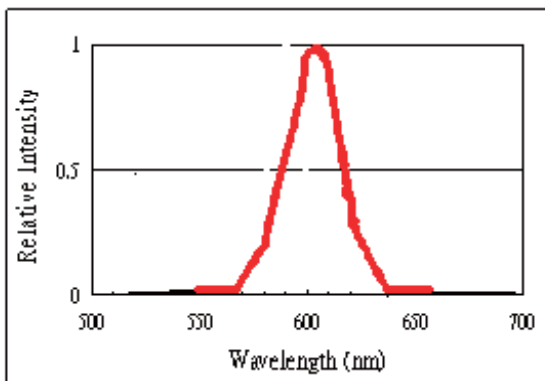


FIG. 5 Relative Intensity Vs. Wavelength





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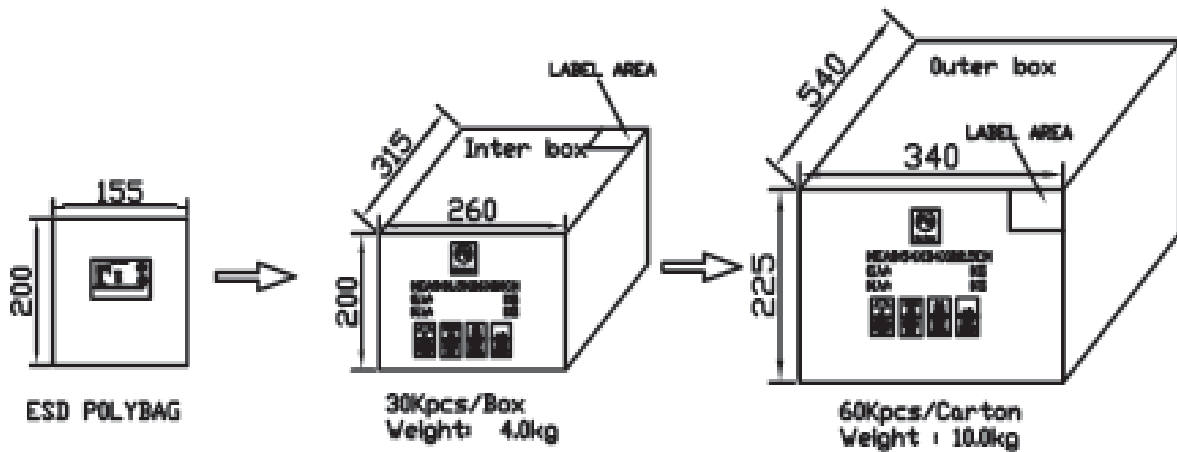
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### Notes:

1. All dimension are in millimeter (inches);
2. Tolerance is  $\pm 0.25\text{mm}$  ( $0.01''$ ) unless otherwise specified.
3. Not recommend to solder within 3mm from the resin.
4. Any kind of LEDs can be made in taped & reel.