



# TOYO LED ELECTRONICS LIMITED

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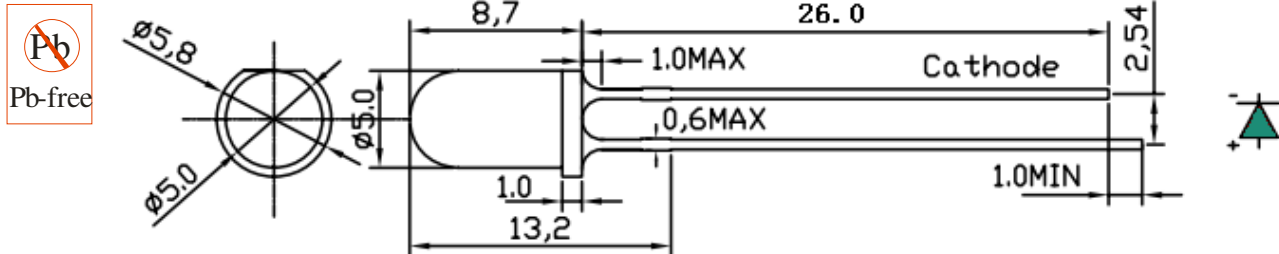
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**P/N: TY-50BG4W10-15000**

5mm Round Type LEDs Series

## PACKAGE DIMENSION



### Selection Guide

Part No.	Dice		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (20½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-50BG4W10-15000	InGaN	Blue Green	Water Clear	12000	15000	19000	10°

### Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	102	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	$\lambda_p$	-	511	-	nm	IF=20mA
Dominant Wavelength	$\lambda_d$	505	-	510	nm	IF=20mA
Spectral Line Coordinates	$\Delta\lambda$	-	20	-		IF=20mA
Forward Voltage	VF	-	3.00	3.40	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

#### NOTES:

- All dimensions are in millimeter(inch);
- Tolerance is  $\pm 0.25\text{mm}(0.01\text{'})$  especially other specified; Luminous intensity tolerance is  $\pm 10\%$ ;
- Dominant Emission Wavelength tolerance is  $\pm 5\%$ ; Specifications are subject to change without notice.