



# TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.  
Tel : (852) 2540 7288 Fax : (852) 2517 1797  
Http://www.toyo-led.com E-mail : sales@toyo-led.com



**P/N: TY-F7625RGB3**

# SPECIFICATION FOR CUSTOMER APPROVAL

**P/N: TY-F7625RGB3**

DATE : December 17, 2015

PREPARED BY : Chen Li fen

CONFIRMED BY : Yan Guo liang

**PLEASE CONFIRM & SIGN BACK THIS SHEET TO US**

**CUSTOMER:** \_\_\_\_\_ **APPROVAL BY:** \_\_\_\_\_  
(COMPANY CHOP) (SIGNATURE)



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## Selection Guide

Part No.	Chip		Lens Color	Iv(mcd)(If=20mA)			Viewing Angle (2θ½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-F7625RGB3	AlGaInP	Red	Water Clear	800	1200	-	80°
	InGaN	Green		1000	1500	-	
	InGaN	Blue		500	700	-	

## Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum	Unit
Power Dissipation	R	60	mW
	G	95	
	B	110	
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	R	150	Pb-free mA
	G	150	
	B	160	
Continuous Forward Current	R	30	mA
	G	25	
	B	30	
Reverse Voltage	VR	5	V
Capacitance	C	100	pF
Operating / Storage Temperature Range	Topr / Tstg	-40°C to +85°C	
Lead Solder Temperature	Tsol	330°C for 3 seconds	

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

Item	Symbol	Min.			Typ.			Max.			Unit	Condition
		R	G	B	R	G	B	R	G	B		
Dominant Wavelength	λd	-	-	-	625	520	470	-	-	-	nm	If=20mA
Forward Voltage	VF	-	-	-	2.2	3.2	3.2	-	-	-	V	If=20mA
Reverse Current	IR							10	10	10	uA	VR=5V

### NOTES:

- All dimensions are in millimeter;
- Tolerance is ±0.25mm unless 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

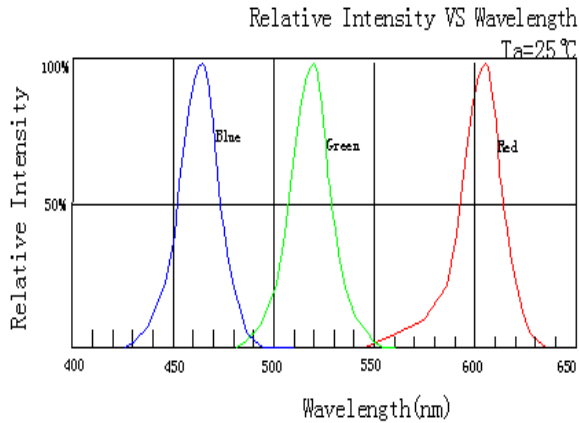


FIG. 2 Relative Intensity Vs. Forward Current

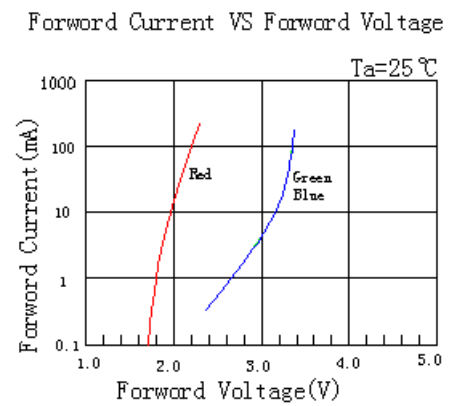


FIG. 3 Forward Voltage Vs. Temperature

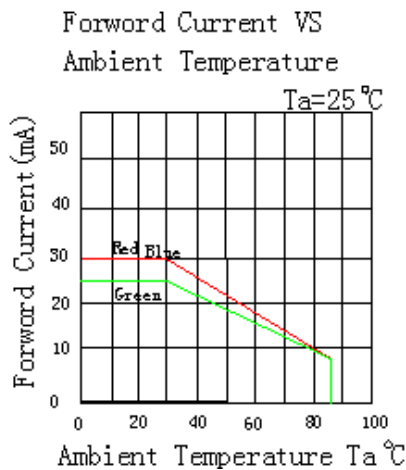


FIG. 4 Relative Intensity Vs. Temperature

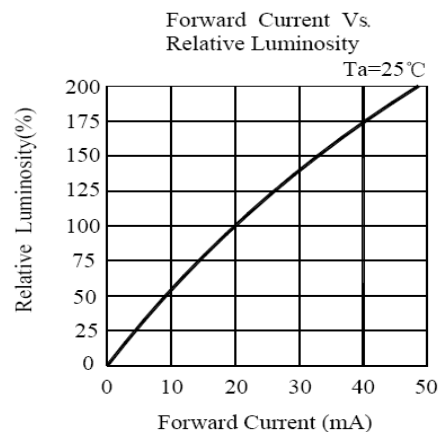
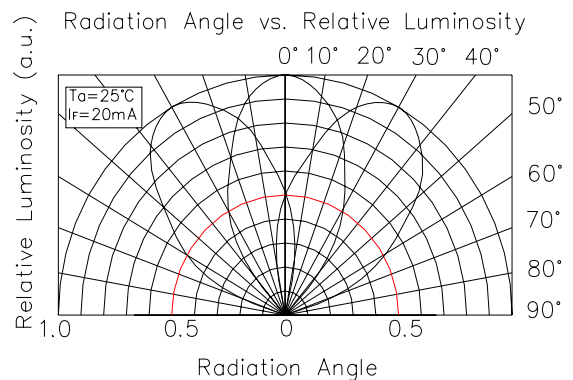
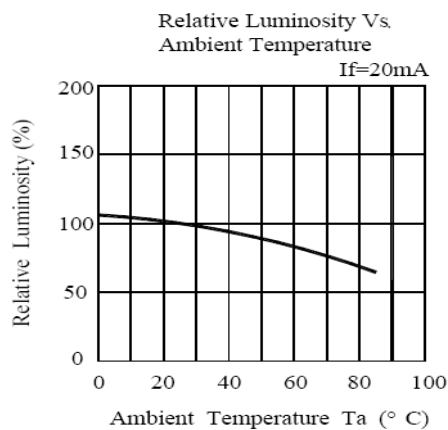


FIG. 5 Relative Intensity Vs. Wavelength





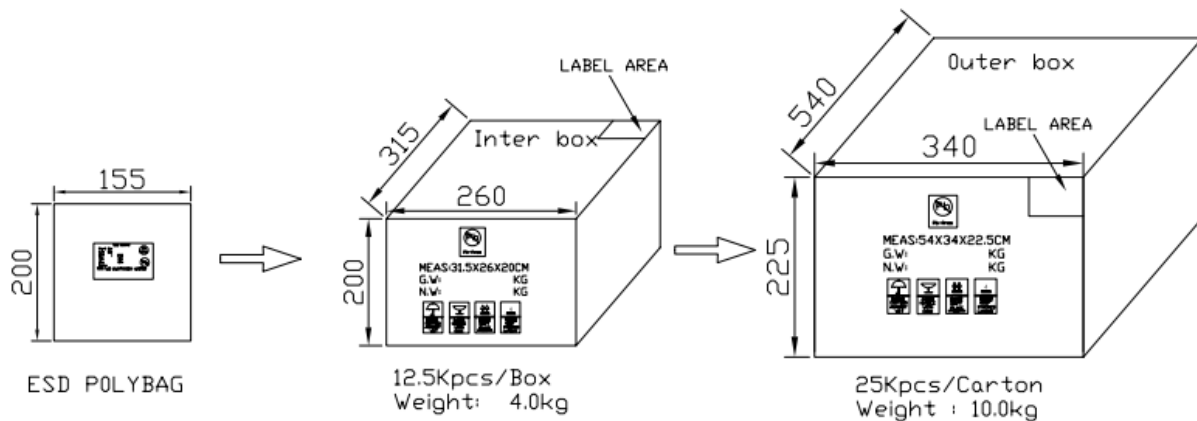
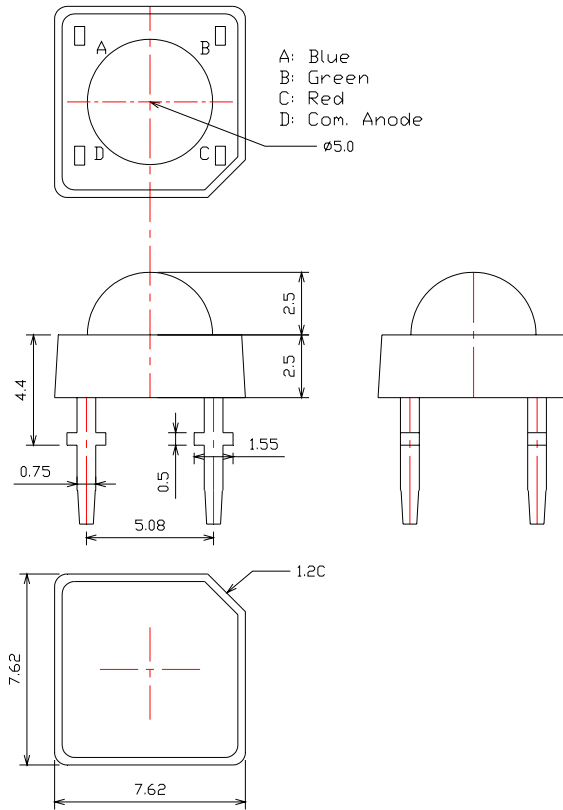
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### BULK & PACKING DIMENSIONS



#### 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.