



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-311SR1YG1D40-25H3-N

3mm Round Type LEDs Series

SPECIFICATION FOR CUSTOMER APPROVAL

P/N: TY-311SR1YG1D40-25H3-N

DATE : February 21, 2014

PREPARED BY : Yanguoliang

CONFIRMED BY :

PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER: _____ **APPROVAL BY:** _____
(COMPANY CHOP) (SIGNATURE)



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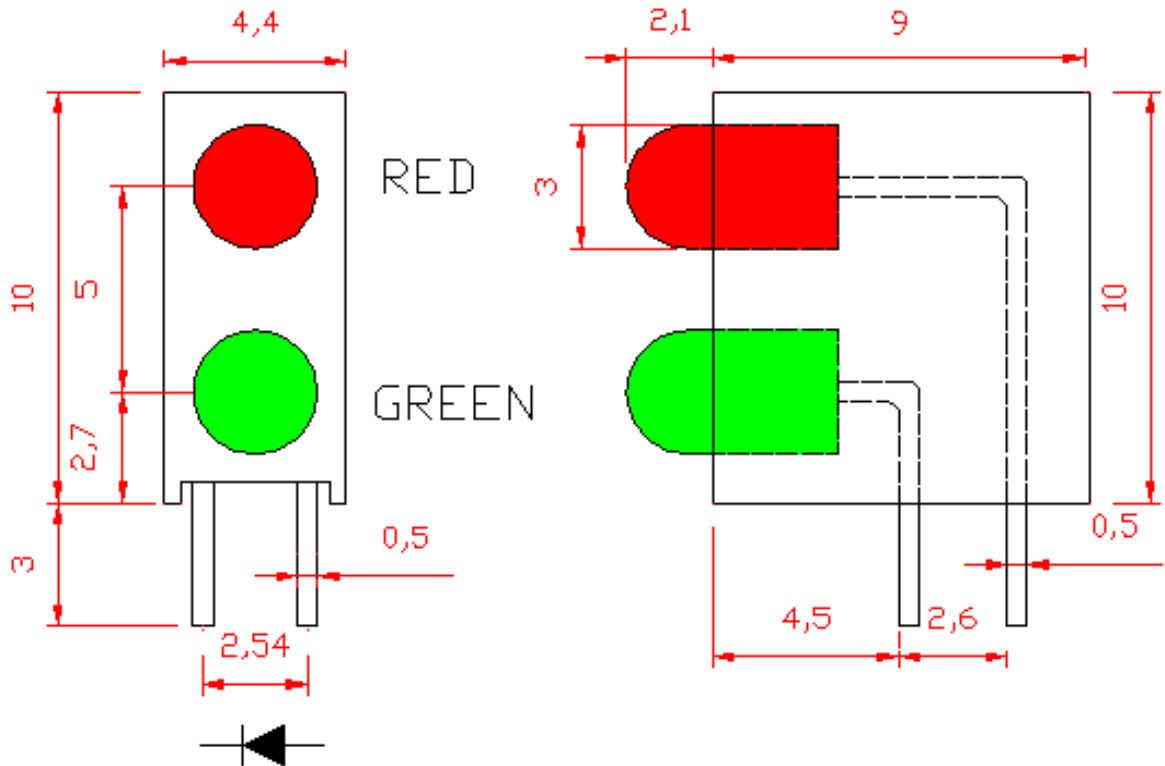
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NOTES:

1. All dimensions are in millimeter;
2. Tolerance is $\pm 0.25\text{mm}$, unless other specified;



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PACKAGE DIMENSION

Part No.	Chip:		Lens Color	Iv(mcd)(If=10mA)			Viewing Angle (2θ½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-311SR1YG1D40-25H3-N	AlGaInP	Red	Red Diffused	10	25	-	40°
	GaP	YellowGreen	Green Diffused	10	20	-	40°

Absolute Maximum Ratings(Ta=25C°)

Item	Symbol	Maximum		Unit
		SR	YG	
Power Dissipation	PD	65	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	IFP	90	140	mA
Continuous Forward Current	IFmax	25	25	mA
Reverse Voltage	VR	5	5	V
Capacitance	C	15	15	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
		R	G	R	G	R	G		
Peak Wavelength	λp	-	-	660	568	-	-	nm	IF=20mA
Dominant Wavelength	λd	635	560	645	570	655	575	nm	IF=20mA
Forward Voltage	VF	1.8	1.8	2.0	2.0	2.60	2.60	V	IF=20mA
Reverse Current	IR	-	-	-	-	10	10	uA	VR=5V

NOTES:

- 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:SR

FIG. 1 Forward Current Vs. Forward Voltage

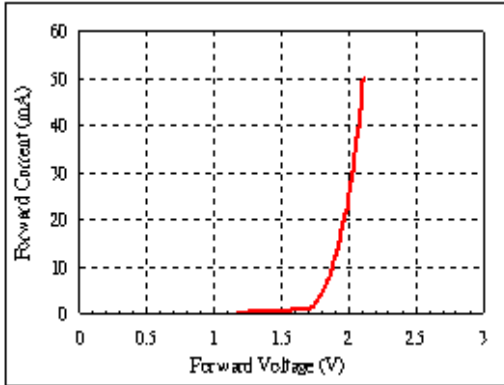


FIG. 2 Relative Intensity Vs. Forward Current

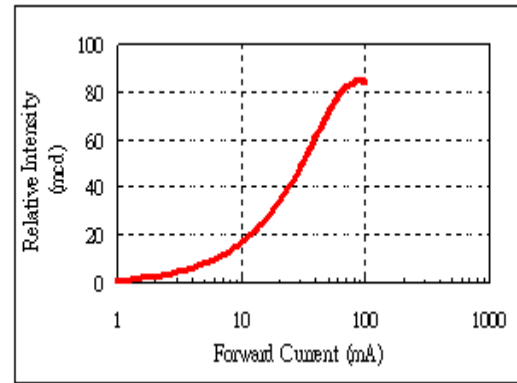


FIG. 3 Forward Voltage Vs. Temperature

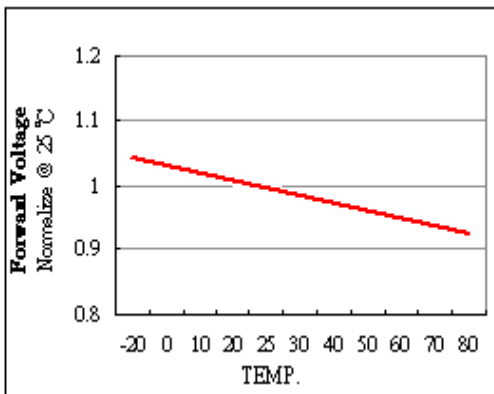


FIG. 4 Relative Intensity Vs. Temperature

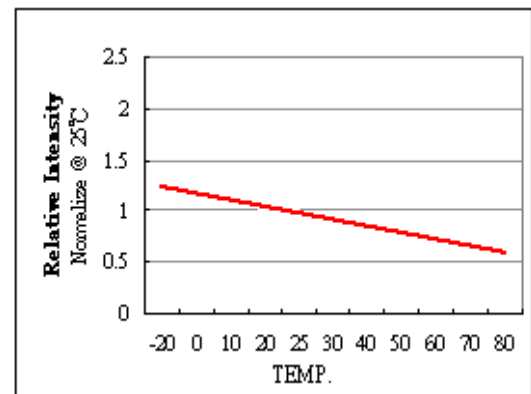
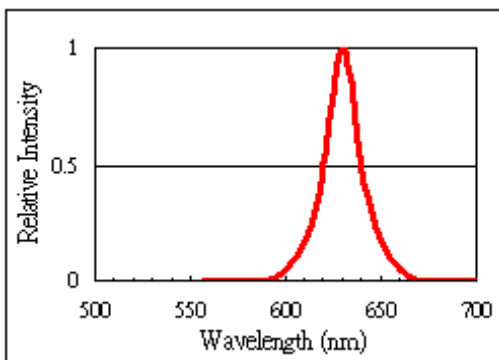


FIG. 5 Relative Intensity Vs. Wavelength





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3mm Round Type LEDs Series

■ Typical Electro-Optical Characteristic Curve:YG

FIG. 1 Forward Current Vs. Forward Voltage

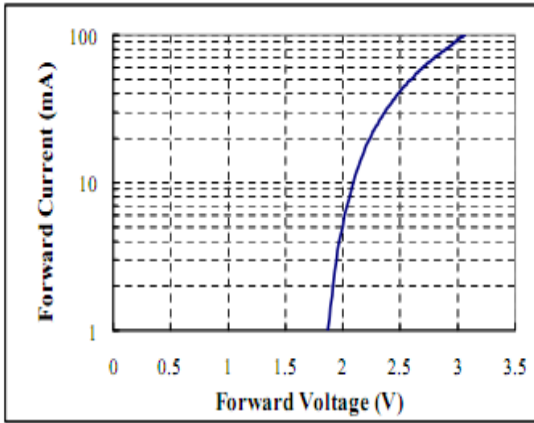


FIG. 2 Relative Intensity Vs. Forward Current

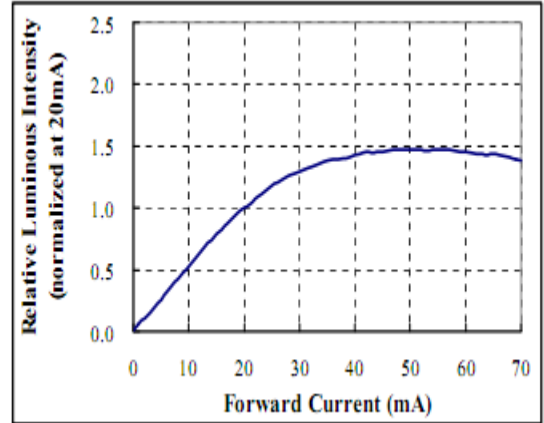


FIG. 3 Forward Voltage Vs. Temperature

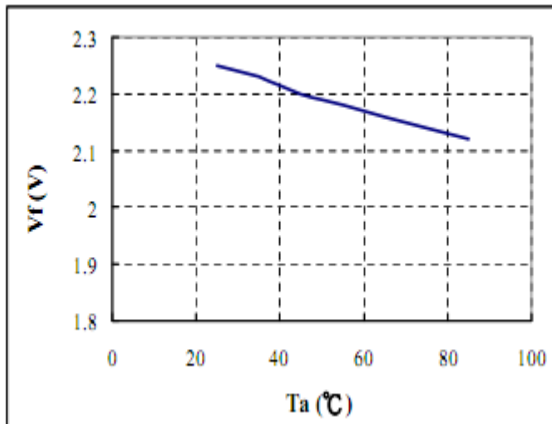


FIG. 4 Relative Intensity Vs. Temperature

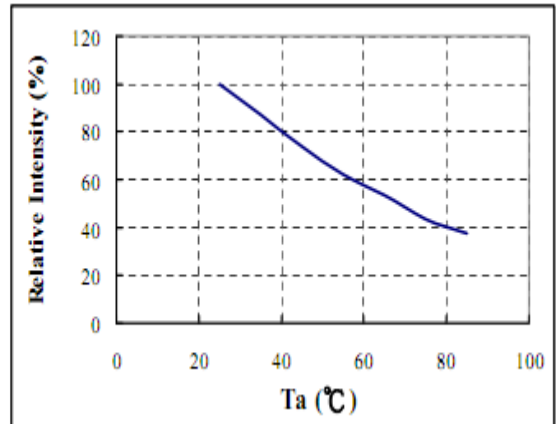
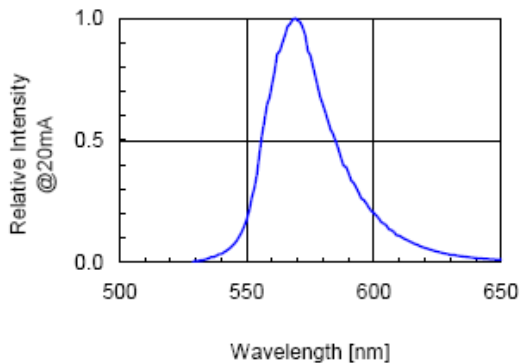


FIG. 5 Relative Intensity Vs. Wavelength





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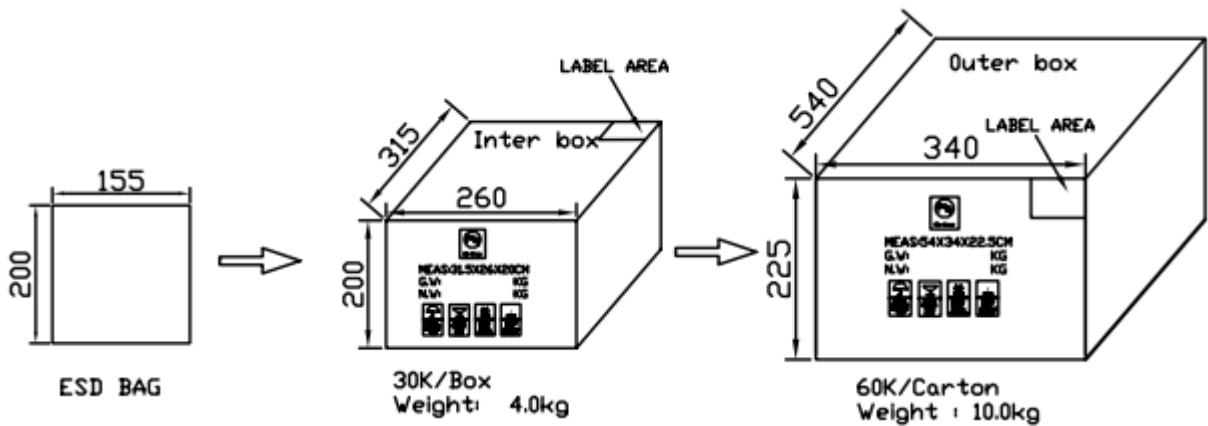
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BULK & PACKING DIMENSIONS



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.