



TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.

Tel : (852) 2540 7288

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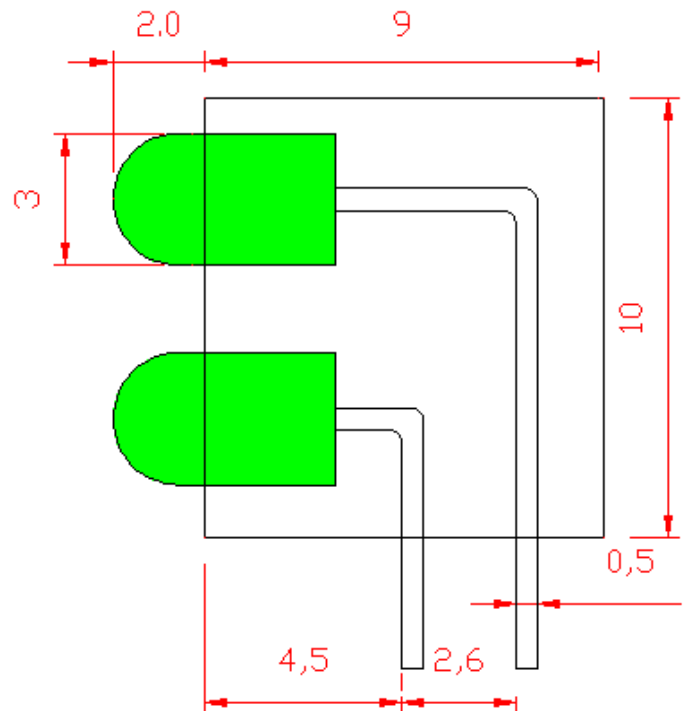
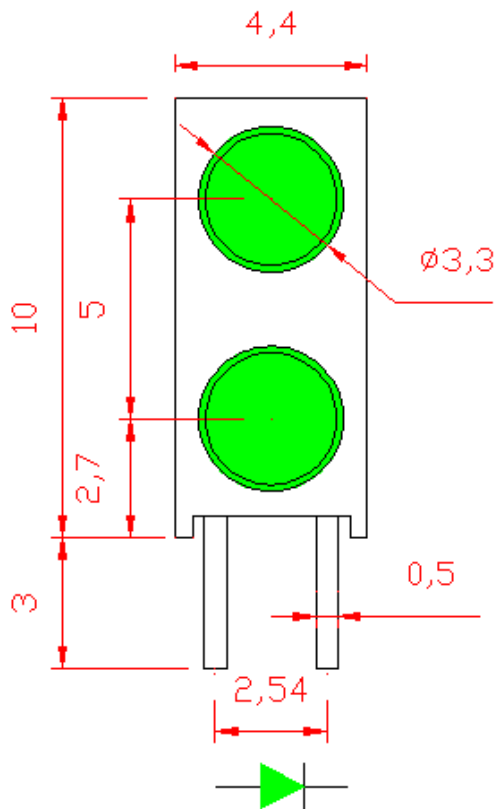
E-mail : sales@toyo-led.com



P/N: TY-30SYG1D80-30H3

3mm Round Type LEDs Series

PACKAGE DIMENSION





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Selection Guide

Part No.	Chip:		Lens Color	Iv(mcd)(IF=20mA)			Viewing Angle (20½)
	Raw Material	Emitted Color		MIN	TYP	MAX	
TY-30SYG1D80-30H3	GaP	Yellow Green	Green Diffused	10	30	-	80°

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
Operating Temperature Range	(Topr) / Tstg	-40 to+85	
Storage Temperature Range	Topr / (Tstg)	-40 to+100	

Electrical / Optical Characteristics(Ta=25C °)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Peak Wavelength	λp	-	568	-	nm	IF=20mA
Dominant Wavelength	λd	565	570	575	nm	IF=20mA
Forward Voltage	VF	1.80	2.20	2.60	V	IF=20mA
Reverse Current	IR	-	-	10	uA	VR=5V

NOTES:

1. All dimensions are in millimeter;
2. Tolerance is ±0.25mm unless other specified; Luminous intensity testing tolerance is ±10%;
3. Dominant Emission Wavelength testing tolerance is ±5%;
4. Specifications are subject to change without notice



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Typical Electro-Optical Characteristic Curve

FIG. 1 Forward Current Vs. Forward Voltage

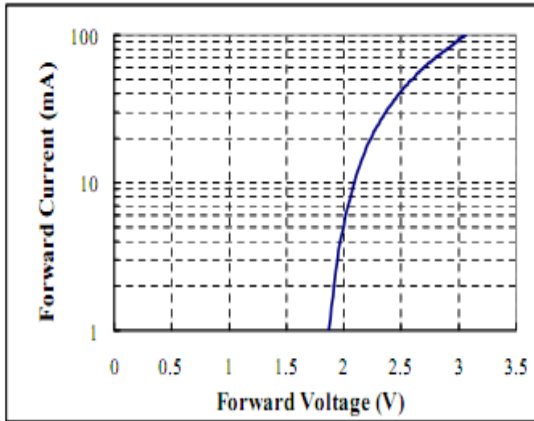


FIG. 2 Relative Intensity Vs. Forward Current

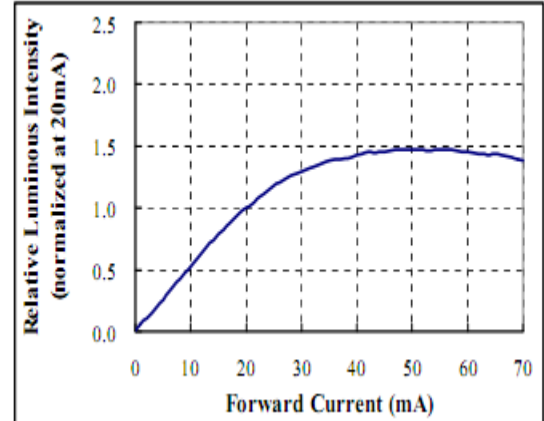


FIG. 3 Forward Voltage Vs. Temperature

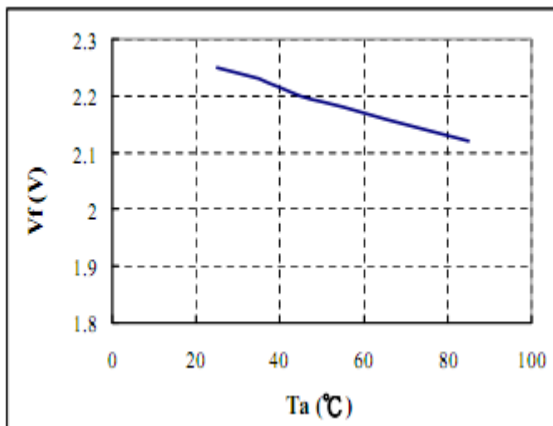


FIG. 4 Relative Intensity Vs. Temperature

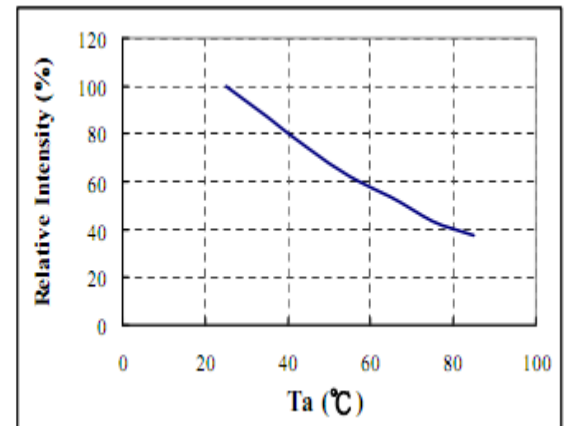
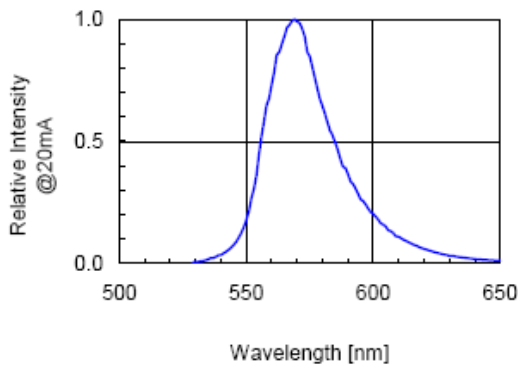


FIG. 5 Relative Intensity Vs. Wavelength





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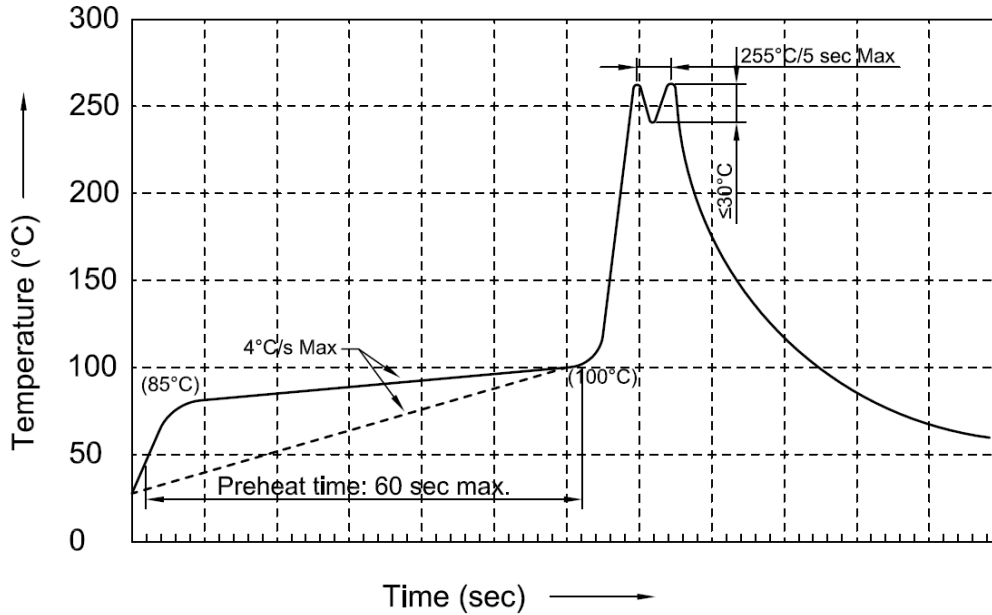
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Recommended Wave Soldering Profiles:



Notes:

1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C.
2. Peak wave soldering temperature between 245-255°C for 3 sec (5 sec max).
3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
4. Fixtures should not apply stress on the component when mounting and soldering process.

More than one wave soldering is not allowed.



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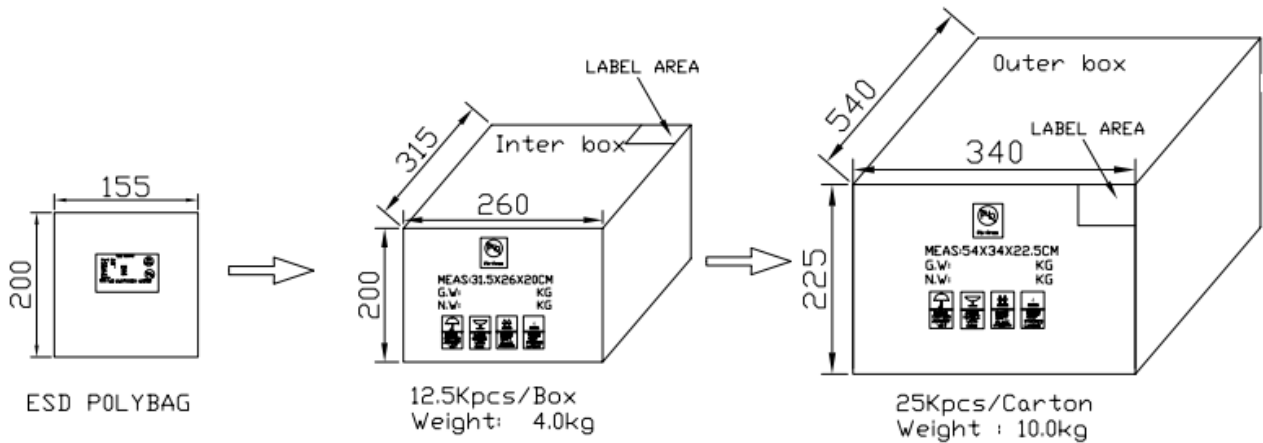
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TAPED PACKING



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.



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REVISION HISTORY

DATE	REVISION CONTENTS	VERSION
2015-06-29	NEW	A