



TOYO LED ELECTRONICS LIMITED

Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.
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P/N: TY-PSV0603UY1(1.10)

0603 Package 1.7*0.6mm Side View Surface Mount LEDs Series

◆ Features:

- 1.7mm x 0.6mm SMT LED, 1.1mm thickness
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard



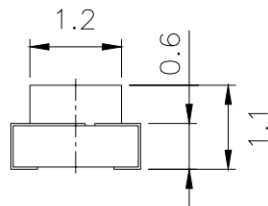
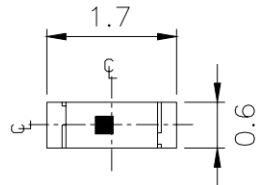
◆ Description

The Yellow source color devices are made with **AlGaInP** on sapphire Light Emitting Diode.

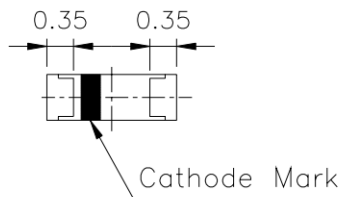
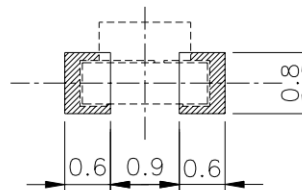
◆ Application

- Optical indicator
- Indicator and backlighting in telephone and fax
- Flat backlight for LCD, switch and symbol
- Light pipe application
- General use

◆ Package Dimensions



For Reflow Soldering (propose)



NOTES :

1. All dimensions are in millimeter[unit];
2. Tolerance is $\pm 0.1\text{mm}$ (0.004") especially other specified;
3. Specifications are subject to change without notice.



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Part No.	Emitted Color	Len's Color	Chip Material
TY-PSV0603UY1(1.10)	Yellow	Water clear	AlGaInP

✧ Absolute Maximum Ratings(Ta=25)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	60	mW
Continuous Forward Current	I _{Fmax}	25	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	60	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-40 to+85	
Storage Temperature Range	T _{stg}	-40 to+85	

✧ Electrical/Optical Characteristics(Ta=25)

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	--	2.0	2.4	V
Luminous Intensity	I _V	I _F =20mA	16	63	92	mcd
Wavelength	λ	I _F =20mA	585	589	592	nm
Color Temperature	T _c	I _F =20mA	--	---	--	K
Chromaticity Coordinates	X	I _F =20mA	--	--	--	--
	Y	I _F =20mA	--	--	--	--
Viewing Angle	2θ _{1/2}	I _F =20mA	--	130	--	Deg
Capacitance	C	V _F =0V, f=1MHZ	--	45	--	pF
Reverse Current	I _R	V _R =5V	--	5	10	uA



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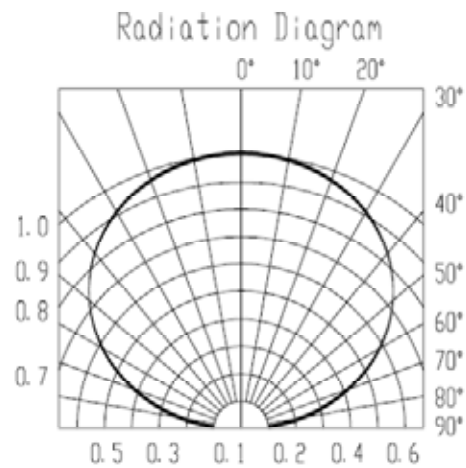
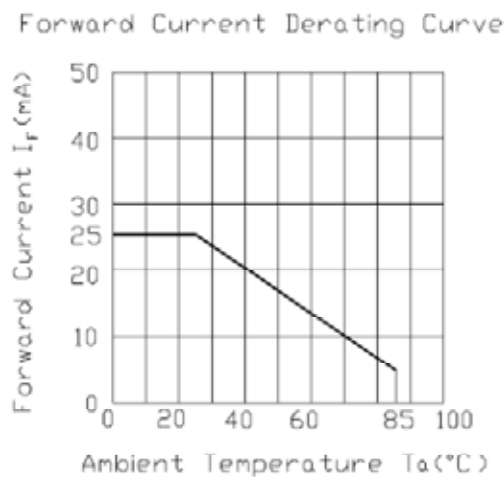
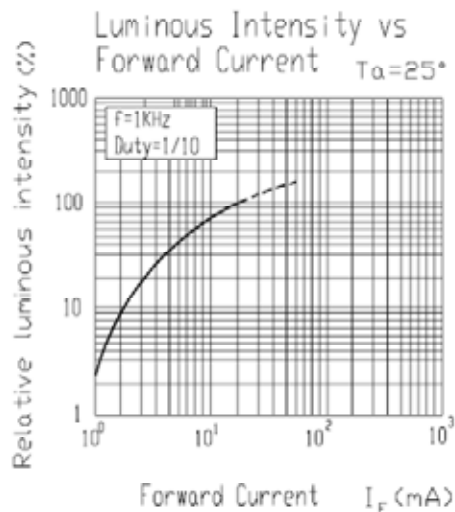
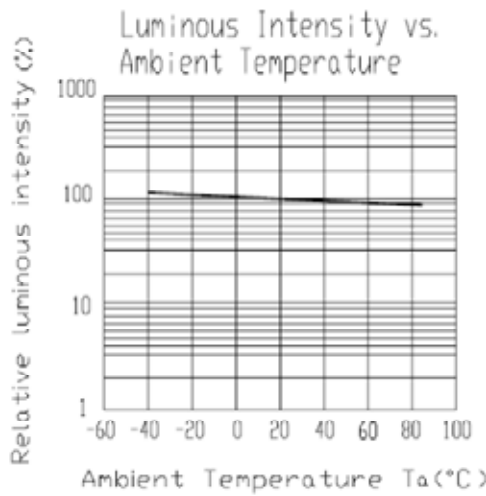
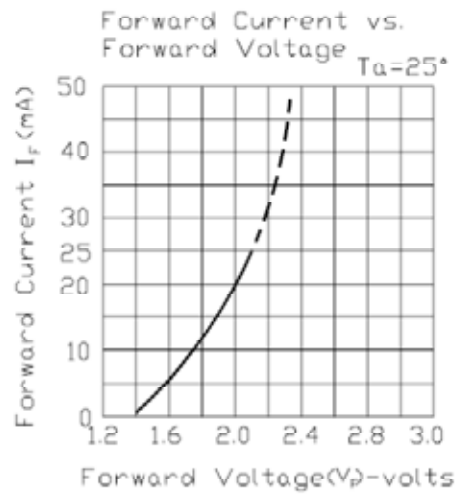
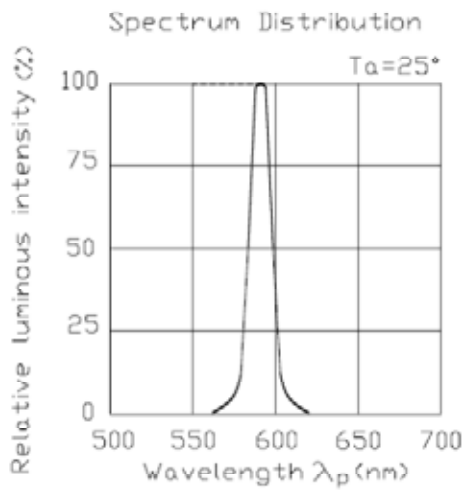
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◇ Typical Electro-Optical Characteristics Curves





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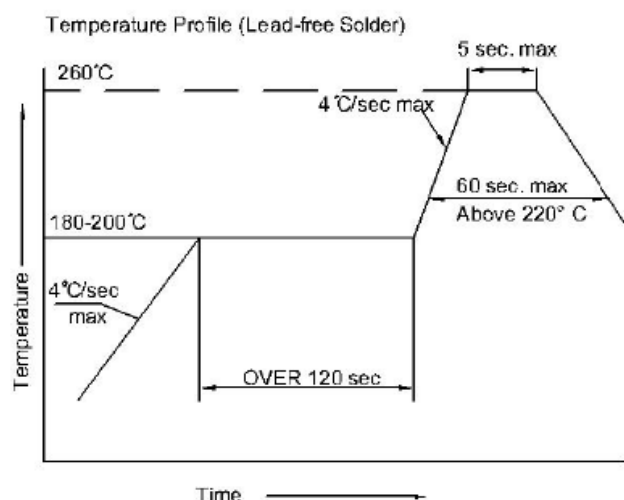
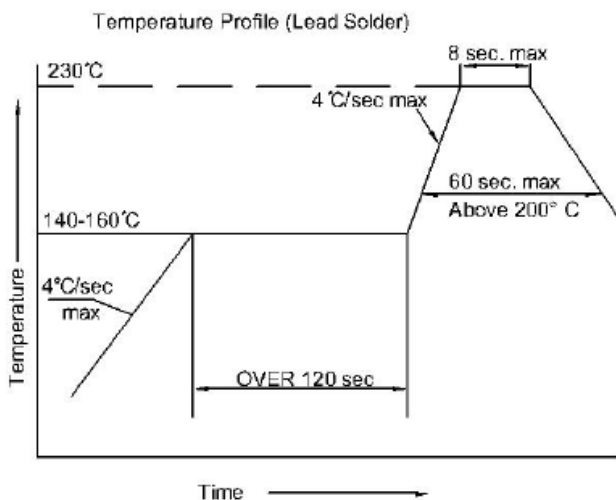
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◇ Reliability Test Items And Conditions

NO.	Item	Test Condition	Test Hr/cycle/time	Sample Q'ty	Ac/Re
1	Reflow	TEMP:260±5 ; Min.5Sec	6 min	22pcs	0/1
2	Temperature Cycle	H:+100 15mins To(5mins) L:-40 15mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100 15mins To(5mins) L:-40 15mins	300 cycles	22pcs	0/1
4	High Temperature Storage	TEMP:+260	1000hrs	22pcs	0/1
5	Low Temperature Storage	TEMP:-40	1000hrs	22pcs	0/1
6	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
7	High Temperature	85	1000hrs	22pcs	0/1
8	High Humidity	85%R.H.	1000hrs	22pcs	0/1

◇ SMT Reflow Soldering Instructions

Number of reflow process shall be than 2 times and cooling
 Process to normal temperature is required between first and second
 soldering process





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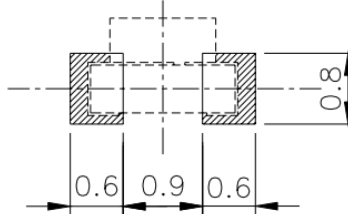
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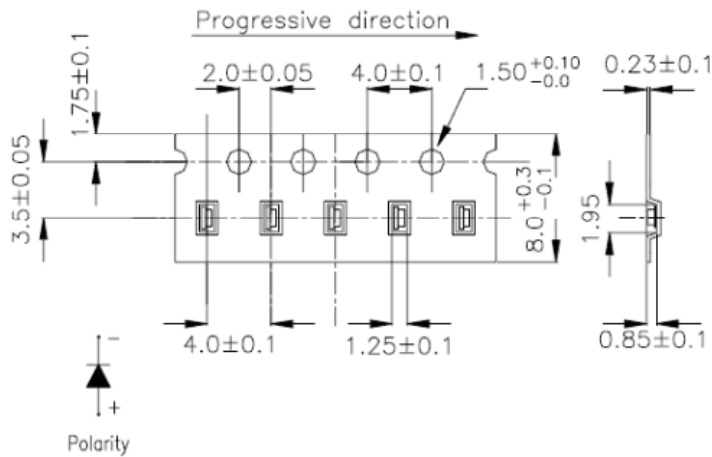
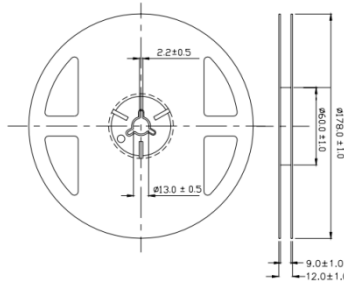
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◇ Recommended Soldering Pad Dimensions



◇ Tape Specification: 3,000PCS per reel



◇ Package Label

SMD LED	
PART NO: _____	QA Pass
LOT NO : _____	
Q' TY : _____	
VF : _____ IV : _____	
WL : _____ BIN: _____	Pb
DATA : _____	
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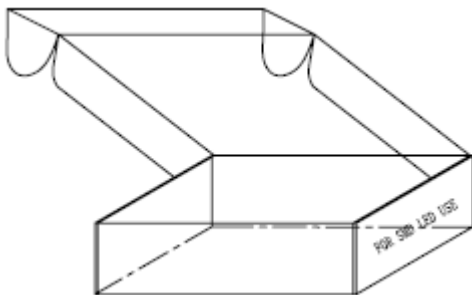
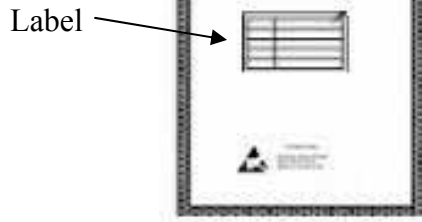
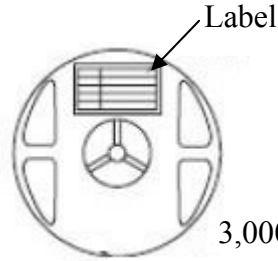
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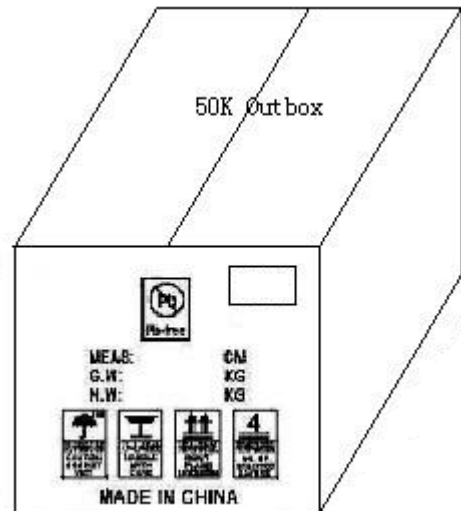
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❖ Package & Shipping Instructions



5Reels/Inter Box (10KPCS)
Size : 250*220*68(mm)



5 Inter boxes/Outer Box (50KPCS)
Size : 350*260*230(mm)