



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-PSV0805BL1(1.0)

0805 Package 2.0*0.6mm Surface Mount LEDs Series

◆ Features:

- 2.1mm x 0.6mm SMT LED, 1.0mm thickness
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard



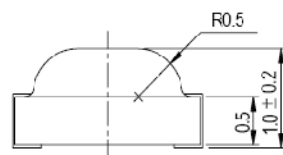
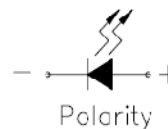
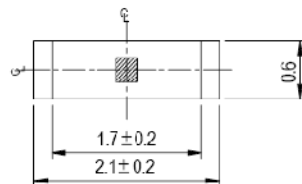
◆ Description

The Blue source color devices are made with **InGaN** on sapphire Light Emitting Diode.

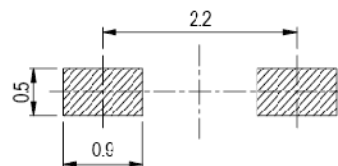
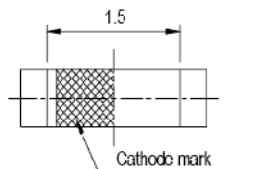
◆ Application

- 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.



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-PSV0805BL1(1.0)

0805 Package 2.0*0.6mm Surface Mount LEDs Series

Part No.	Emitted Color	Len's Color	Chip Material
TY-PSV0805BL1(1.0)	Blue	Water clear	InGaN

✧ Absolute Maximum Ratings(Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	110	mW
Continuous Forward Current	I _{Fmax}	25	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-40 to+85	25°C
Storage Temperature Range	T _{stg}	-40 to+85	25°C

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

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	2.8	3.2		V
Luminous Intensity	I _v	I _F =20mA	28		72	mcd
Wavelength	λ	I _F =20mA	465	470	475	nm
Typical Correlated 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	--	120	--	Deg
Capacitance	C	V _F =0V, f=1MHZ	--	45	--	pF
Reverse Current	I _R	V _R =5V	--	5	10	uA



TOYO LED ELECTRONICS LIMITED

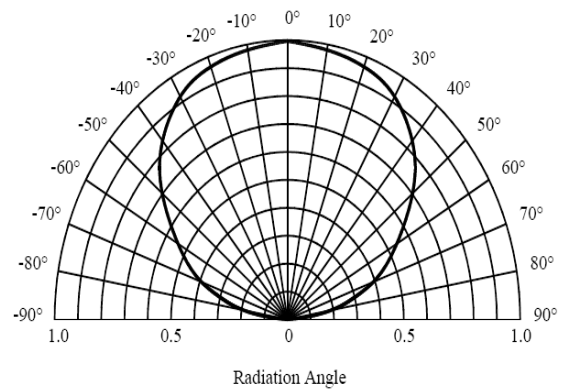
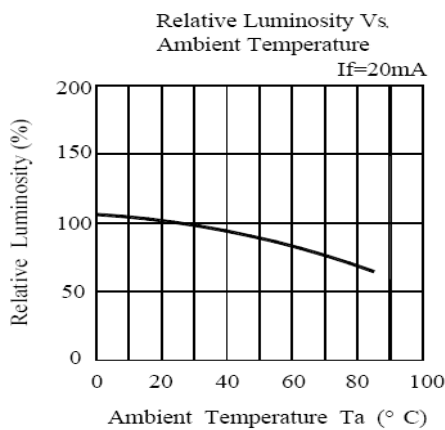
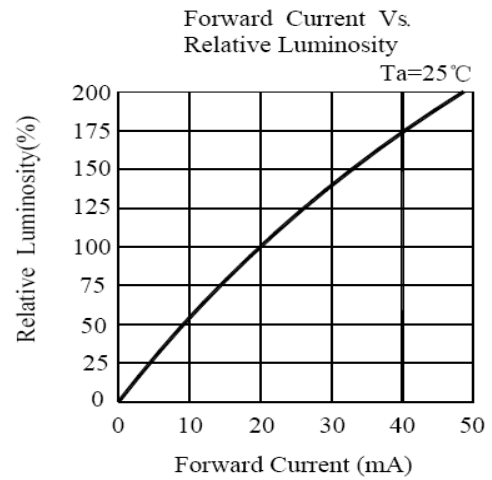
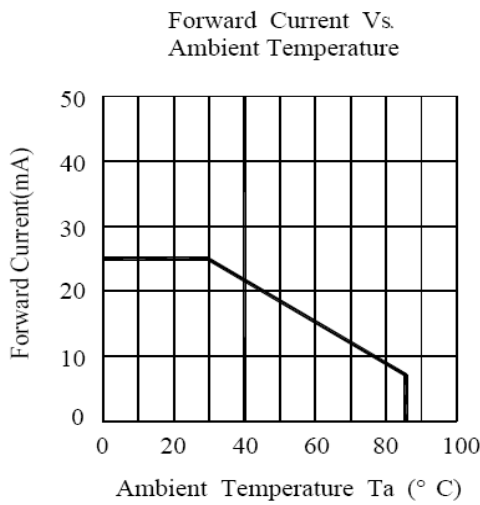
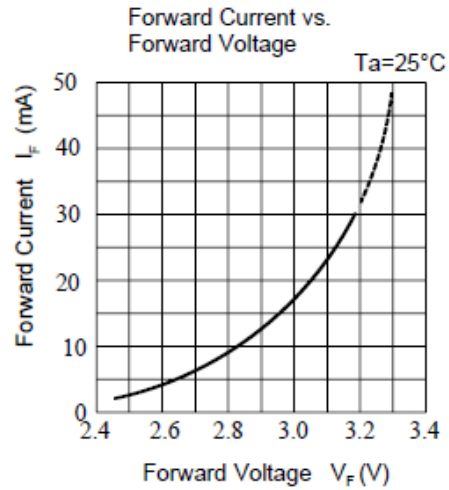
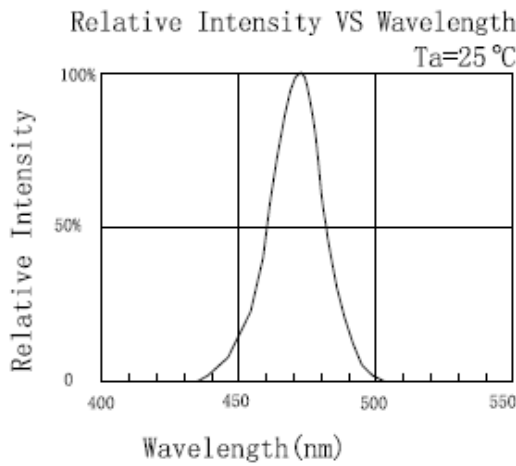
Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.
 Tel : (852) 2540 7288 Fax : (852) 2517 1797
 http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N: TY-PSV0805BL1(1.0)

0805 Package 2.0*0.6mm Surface Mount LEDs Series

◇ Typical Electro-Optical Characteristics Curves





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-PSV0805BL1(1.0)

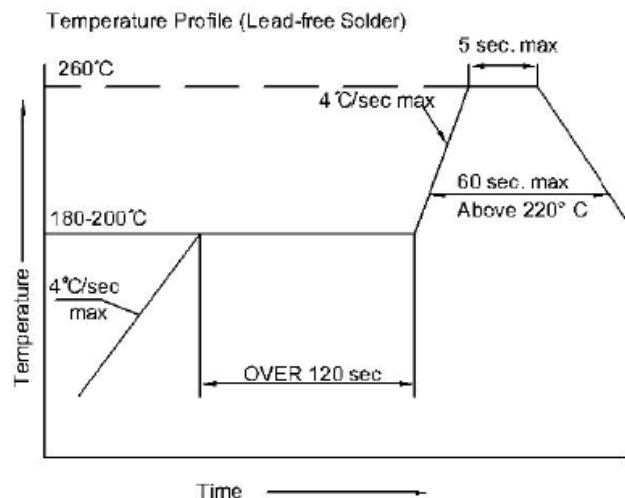
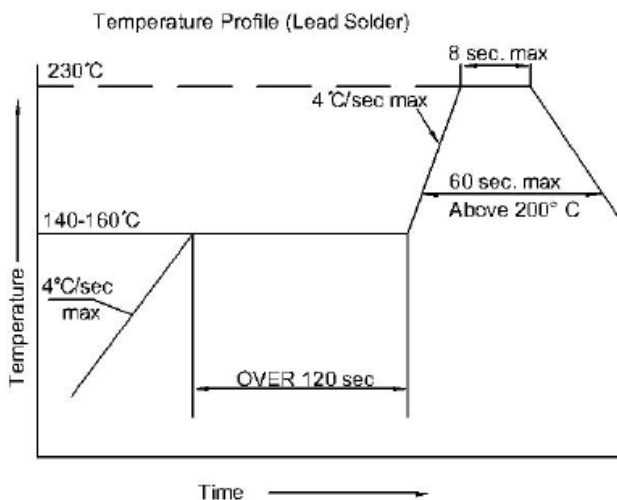
0805 Package 2.0*0.6mm Surface Mount LEDs Series

◇ Reliability Test Items And Conditions

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





TOYO LED ELECTRONICS LIMITED

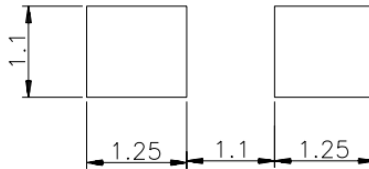
Room 1610, Hong Kong Plaza, 188 Connaught Road West, Hong Kong.
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



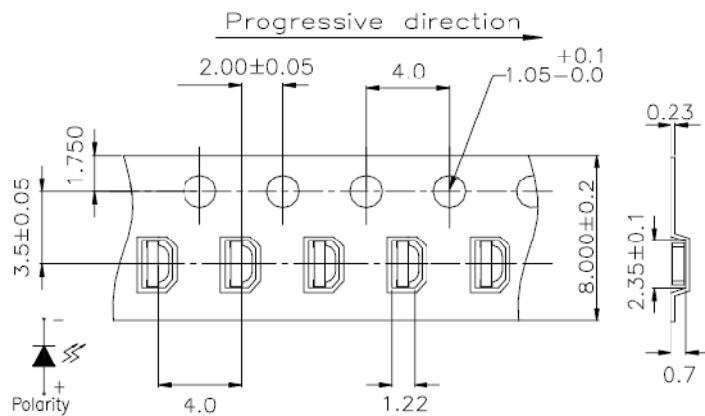
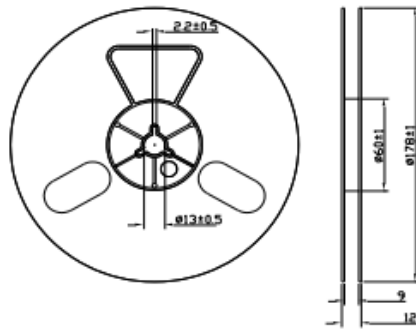
P/N: TY-PSV0805BL1(1.0)

0805 Package 2.0*0.6mm Surface Mount LEDs Series

❖ 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 : _____	
TOYO LED ELECTRONICS LIMITED Website: http://www.toyo-led.com E-mail: sales@toyo-led.com	



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-PSV0805BL1(1.0)

0805 Package 2.0*0.6mm Surface Mount LEDs Series

❖ Package & Shipping Instructions

