



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-L1206WW1(0.80)

1206 Package 3.2*1.6mm Surface Mount LEDs Series

◇ Features:

- 3.2*1.6*0.8 mm
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard

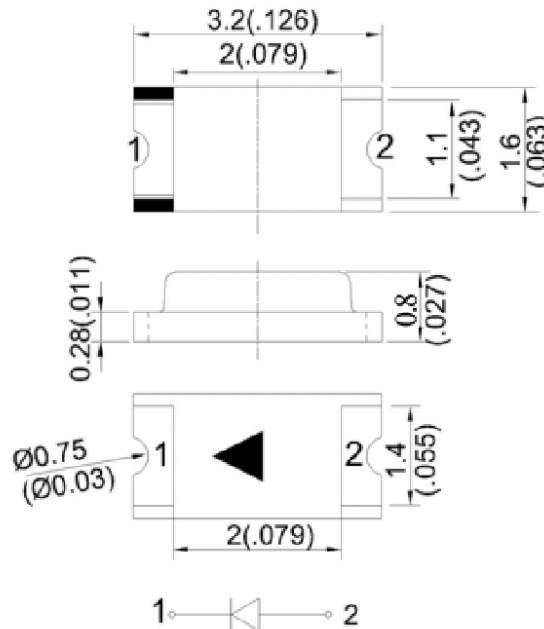
◇ Description

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



NOTES :

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



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Part No.	Emitted Color	Lens Color	Chip Material
TY-L1206WW1(0.80)	Pure White	Yellow	InGaN

◇ Absolute Maximum Ratings(Ta=25)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	111	mW
Continuous Forward Current	I _{Fmax}	30	mA
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	I _{FP}	125	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{opr}	-40 to+85	
Storage Temperature Range	T _{stg}	-40 to+85	
Lead Solder Temperature	Tsol	260°C for 3 seconds	

◇ Electrical/Optical Characteristics(Ta=25)

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	2.8	-	3.7	V
Luminous Intensity	I _V	I _F =20mA	350	---	600	mcd
Typical Correlated Color Temperature	T _c	I _F =20mA	2700	---	3400	K
Viewing Angle	2θ _{1/2}	I _F =20mA	--	140	--	Deg
Reverse Current	I _R	V _R =5V	--	--	10	uA



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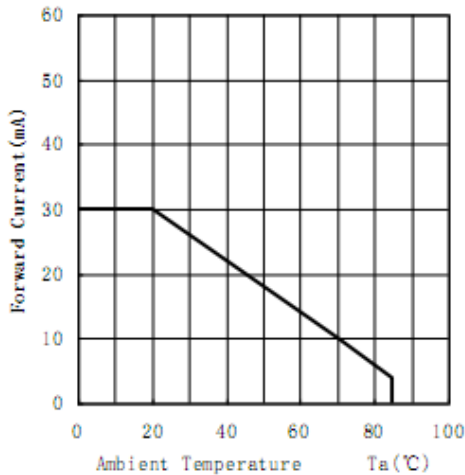


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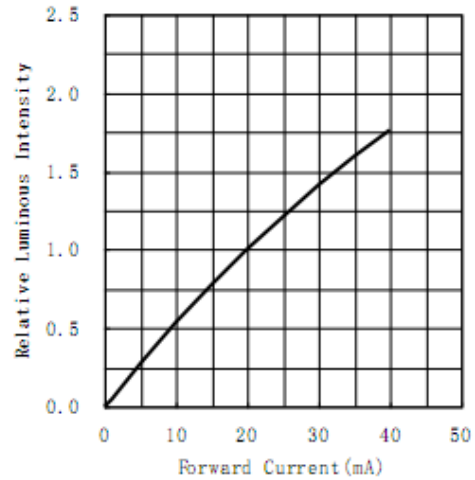
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◇ Typical Electro-Optical Characteristics Curves

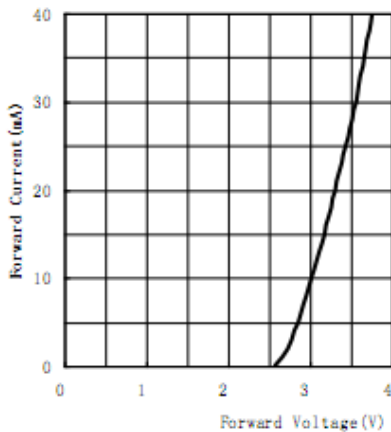
Ambient Temperature VS. Forward Current



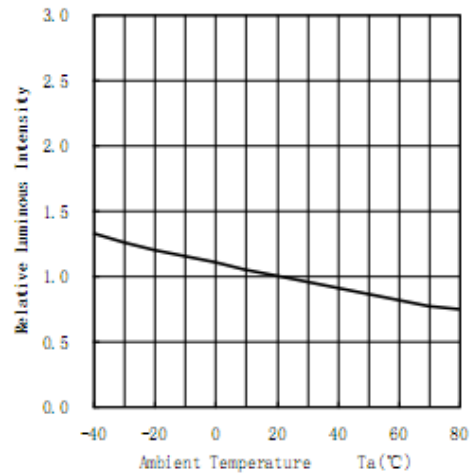
Forward Current VS. Relative Intensity



Forward Voltage VS. Forward Current



Ambient Temperature VS. Relative Intensity



Relative spectral emission

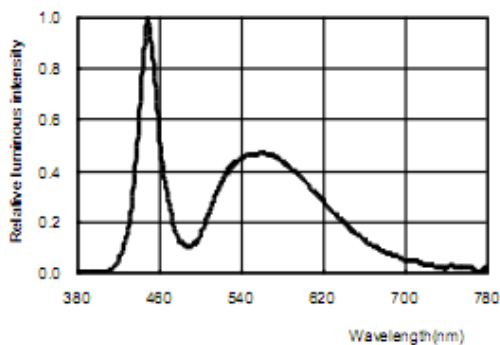
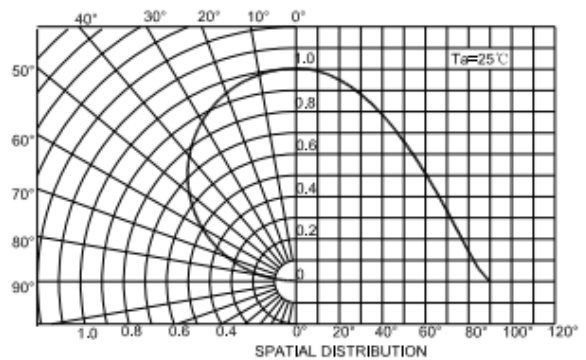


Diagram characteristics of radiation





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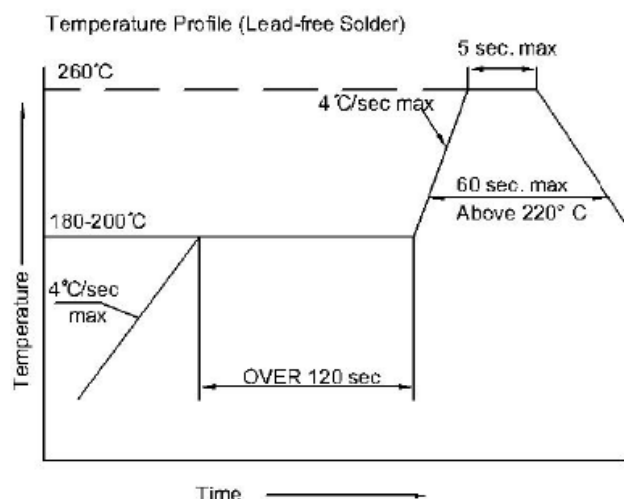
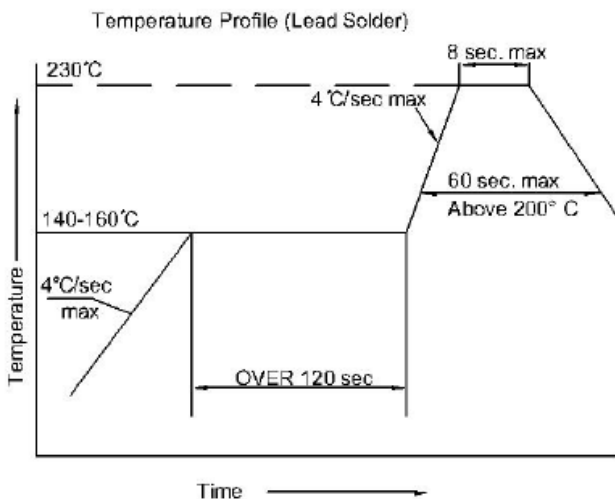
◇ Reliability Test Items And Conditions

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:+90 30mins To(5mins) L:-30 30mins	300 cycles	22pcs	0/1
3	Thermal Shock	H:+100 20mins To(5mins) L:-40 20mins	300 cycles	22pcs	0/1
4	High Temperature Storage	TEMP:+100	1000hrs	22pcs	0/1
5	Low Temperature Storage	TEMP:-30	1000hrs	22pcs	0/1
6	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
7	High Temperature	65	240hrs	22pcs	0/1
8	High Humidity	R.H.= 85%		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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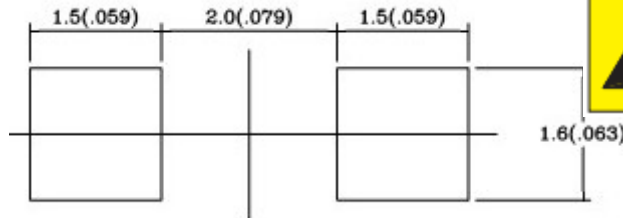
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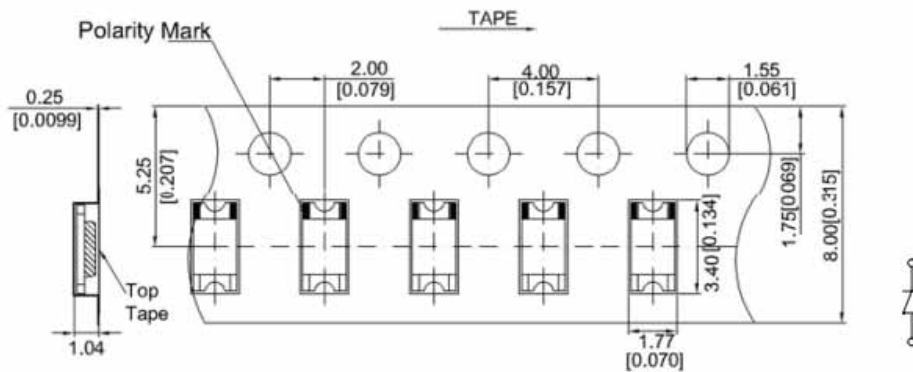
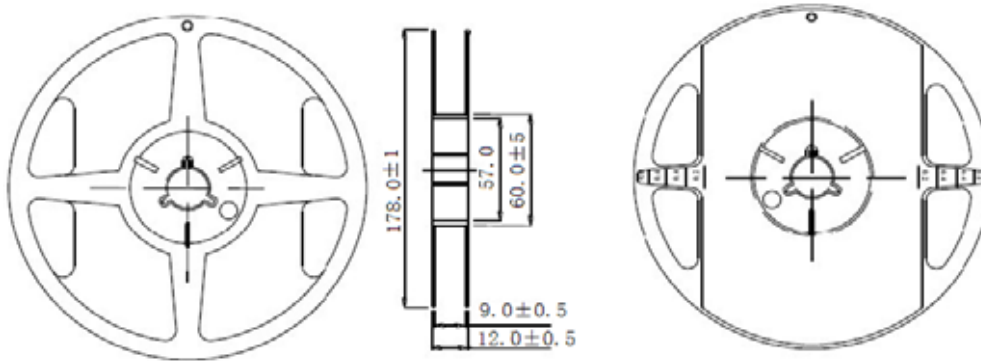
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Recommended Soldering Pad Dimensions



Tape Specification: 3,000pcs



Package Label

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

