



TOYOLED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

SPECIFICATION FOR CUSTOMER APPROVAL

P/N: TY-YSV0602WW1(1.10)

DATE : February 8, 2017

PREPARED BY : Chen you hui

CONFIRMED BY :



PLEASE CONFIRM & SIGN BACK THIS SHEET TO US

CUSTOMER:

(COMPANY CHOP)

APPROVAL BY:

(SIGNATURE)



TOYOLED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

✧ Features:

- 1.7mm x 0.6mm SMT LED, 1.10mm thickness
- Mono-color type
- Soldering methods :All SMT assembly methods
- Comply ROHS standard

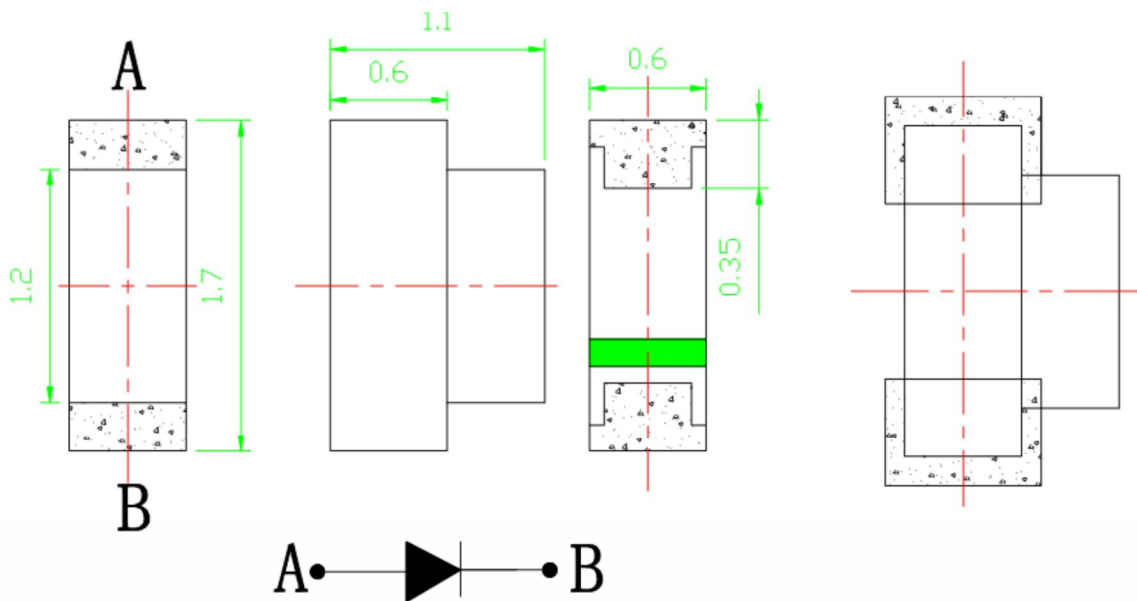
✧ Description

The Blue source color devices are made with GaN 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 $\pm 0.1\text{mm}$ ($0.004''$) especially other specified;
3. Specifications are subject to change without notice.



TOYOLED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
 Tel : (852) 2540 7288 Fax : (852) 2517 1797
 http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

Part No.	Emitted Color	Len's Color	Chip Material
TY-YSV0602WW1(1.10)	Warm White	Yellow Diffused	GaN

✧ Absolute Maximum Ratings(Ta=25°C)

Item	Symbol	Maximum	Unit
Power Dissipation	PD	100	mW
Continuous Forward Current	I _{Fmax}	30	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	°C
Storage Temperature Range	T _{stg}	-40 to+85	°C

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

Item	Symbol	Condition	Min.	Typ.	Max	Unit
Forward Voltage	V _F	I _F =20mA	--	2.8	3.3	V
Luminous Intensity	I _v	I _F =20mA	300	400	--	mcd
Typical Correlated Color Temperature	T _c	I _F =20mA	2800	--	3500	K
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



TOYOLED ELECTRONICS LIMITED

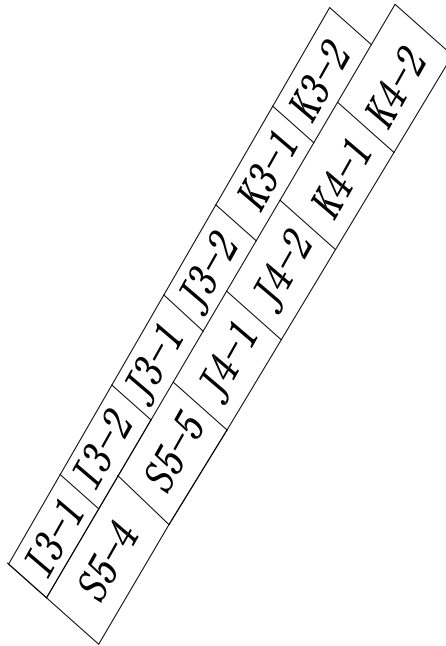
Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
 Tel : (852) 2540 7288 Fax : (852) 2517 1797
 http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

Bin Rank:



色区坐标	X1	Y1	X2	Y2	X3	Y3	X4	Y4
I3-1	0.4166	0.3902	0.4134	0.3924	0.4177	0.3984	0.4208	0.3961
I3-2	0.4208	0.3961	0.4177	0.3984	0.4219	0.4043	0.4251	0.4020
J3-1	0.4251	0.4020	0.4219	0.4043	0.4262	0.4103	0.4294	0.4079
J3-2	0.4294	0.4079	0.4262	0.4103	0.4304	0.4163	0.4337	0.4139
K3-1	0.4337	0.4139	0.4304	0.4163	0.4351	0.4229	0.4384	0.4204
K3-2	0.4384	0.4204	0.4351	0.4229	0.4397	0.4294	0.4431	0.4270
J4-1	0.4313	0.4013	0.4269	0.4045	0.4313	0.4106	0.4358	0.4073
J4-2	0.4358	0.4073	0.4313	0.4106	0.4357	0.4166	0.4402	0.4133
K4-1	0.4402	0.4133	0.4357	0.4166	0.4404	0.4231	0.4452	0.4196
K4-2	0.4452	0.4196	0.4404	0.4231	0.4451	0.4296	0.4498	0.4263
S5-4	0.4208	0.3871	0.4166	0.3902	0.4224	0.3983	0.4266	0.3950
S5-5	0.4266	0.3950	0.4224	0.3983	0.4269	0.4045	0.4313	0.4013



TOYOLED ELECTRONICS LIMITED

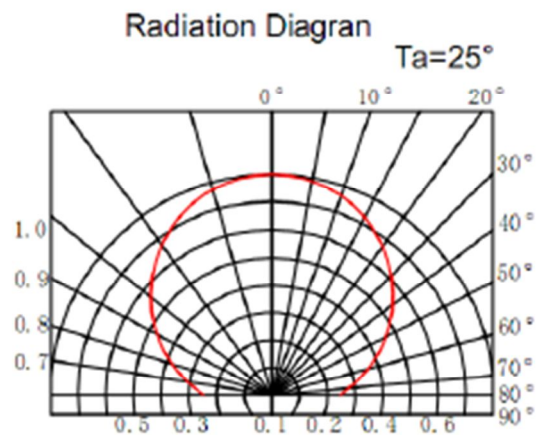
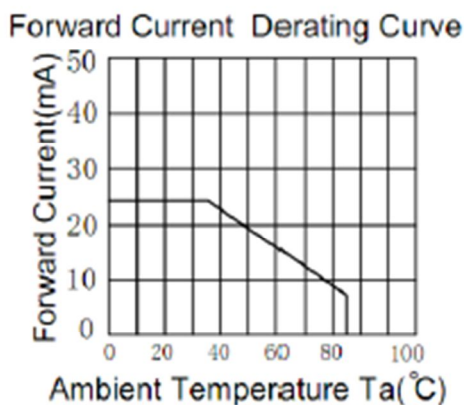
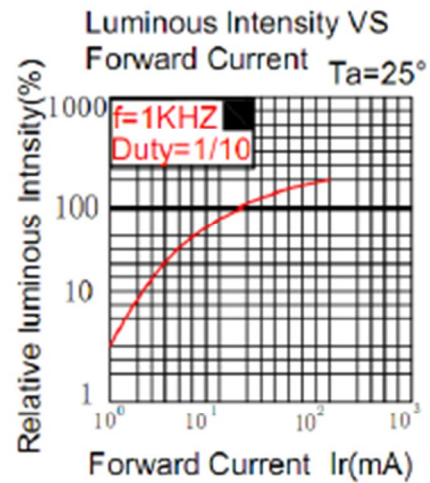
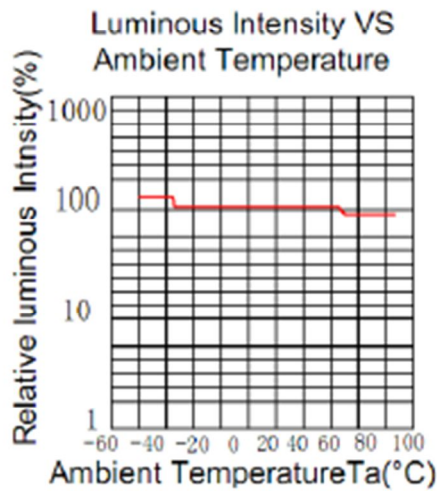
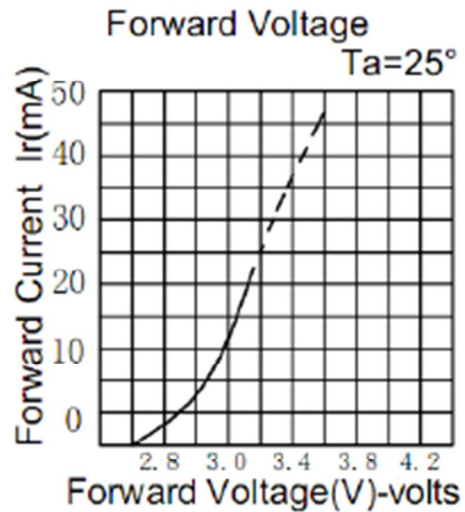
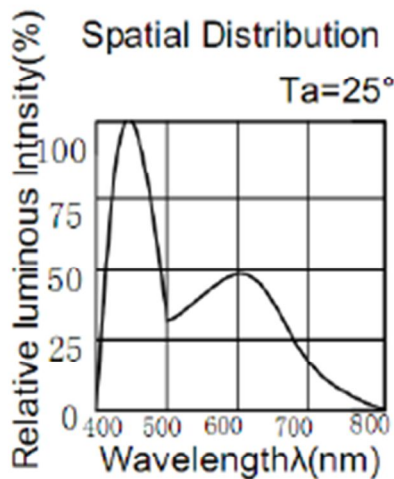
Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
 Tel : (852) 2540 7288 Fax : (852) 2517 1797
 http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

◇ Typical Electro-Optical Characteristics Curves





TOYOLED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
 Tel : (852) 2540 7288 Fax : (852) 2517 1797
 http://www.toyo-led.com E-mail : sales@toyo-led.com



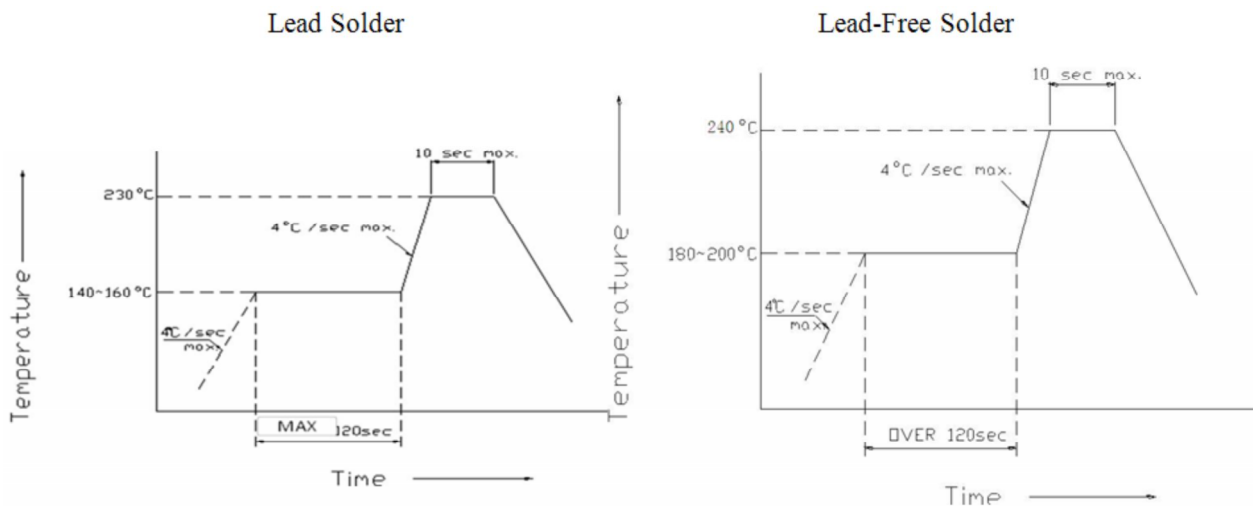
P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View 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	100 cycles	22pcs	0/1
3	Low Temperature Storage	TEMP:-40°C	1000hrs	22pcs	0/1
4	DC Operating Life	IF=20MA	1000hrs	22pcs	0/1
5	High Temperature	85°C	1000hrs	22pcs	0/1
6	High Humidity	85%R.H.	240hrs	22pcs	0/1

◇ SMT Reflow Soldering Instructions





TOYOLED ELECTRONICS LIMITED

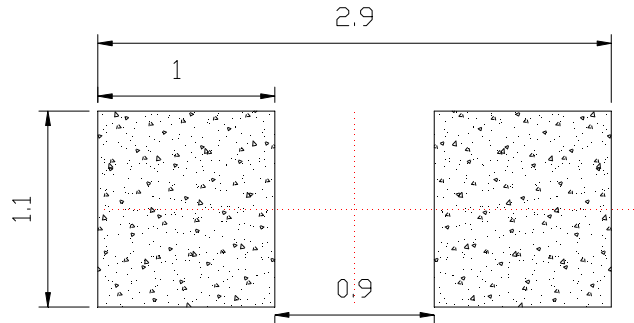
Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



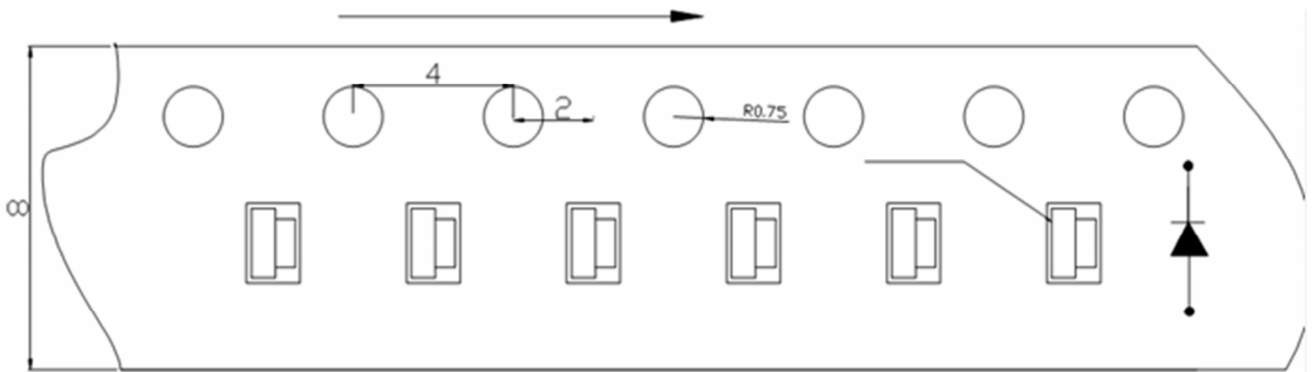
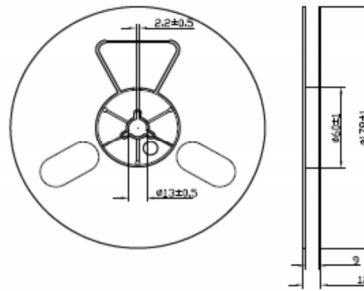
P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

❖ Recommended Soldering Pad Dimensions



❖ Tape Specification:4,000PCS per reel



❖ Package Label

SMD LED	
PART NO: _____	QA Pass
LOT NO : _____	
Q' TY : _____	Pb
VF : _____ IV : _____	
WL : _____ BIN: _____	
DATA : _____	
TOYO LED ELECTRONICS LIMITED	
Website:http://www.toyo-led.com E-mail:sales@toyo-led.com	



TOYOLED ELECTRONICS LIMITED

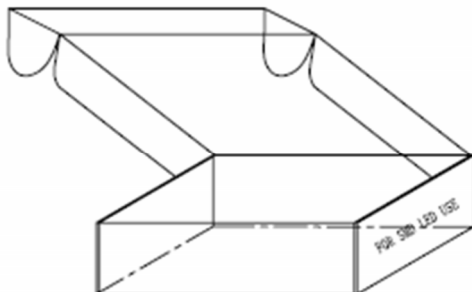
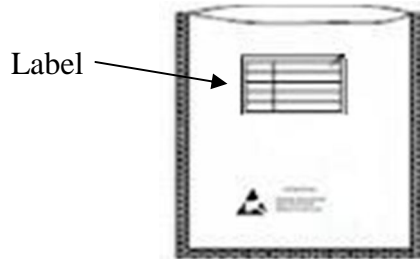
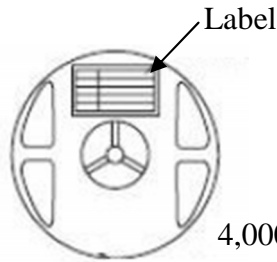
Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



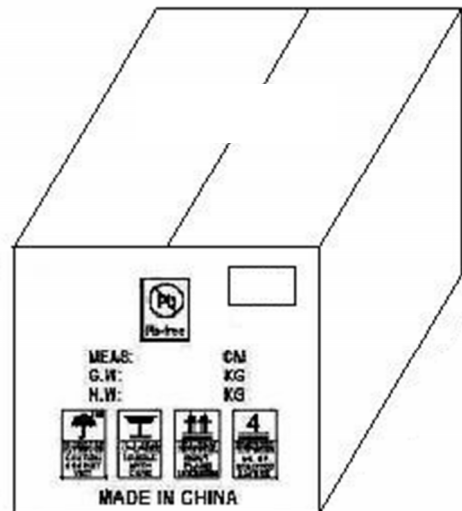
P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

❖ Package & Shipping Instructions



5Reels/Inner Box(20KPCS)
Size: 250*220*68(mm)



5 Inner boxes/Outer Box(100KPCS)
Size: 350*260*230(mm)



TOYOLED ELECTRONICS LIMITED

Unit 10-11, 19/F, Metro Loft, 38 KwaiHei Street, Kwai Chung, N.T., Hong Kong
Tel : (852) 2540 7288 Fax : (852) 2517 1797
http://www.toyo-led.com E-mail : sales@toyo-led.com



P/N:TY-YSV0602WW1(1.10)

0602Package 1.7*0.6mm Side View Surface Mount LEDs Series

REVISION HISTORY

DATE	REVISION CONTENTS	VERSION
2017-02-08	New	A