



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : S150ANW4-M

1206Package 3.2*1.6mm Chip LEDs

Features :

- 3.2mmx1.6mm SMT LED, 0.7mm THICKNESS.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- PACKAGE : 4000PCS / REEL.
- RoHS COMPLIANT.

Applications :

- Automotive: backlighting in dashboard and switch.
- Telecommunication: indicator and backlighting in telephone and fax.
- Flat backlight for LCD switch and symbol.

Dice material	Emitted color	Lens Color
InGaN	WHITE	YELLOW FLUORESCENT

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min	Typ.	Max	Unit
Luminous Intensity	Iv	IF=20mA	500		1100	mcd
Chromaticity Coordinates	X	IF=20mA		0.28		nm
	Y			0.29		
Viewing Angle	2 θ 1/2	IF=20mA		120		Deg
Forward Voltage	VF	IF=20mA	2.8		3.6	V
Reverse Current	IR	VR=5V			10	μ A

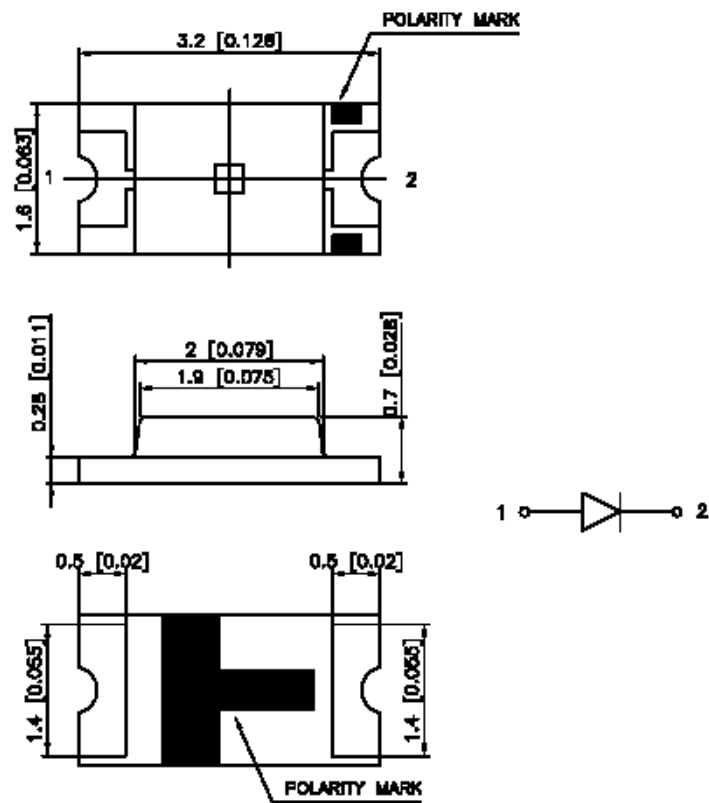
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	100	mW
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	IF(Peak)	100	mA
Continuous Forward Current	IF	25	mA
Reverse Voltage	VR	5	V
Derating Linear From 25°C		0.3	mA/°C
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +85	°C



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◆ Package Dimensions



Notes:

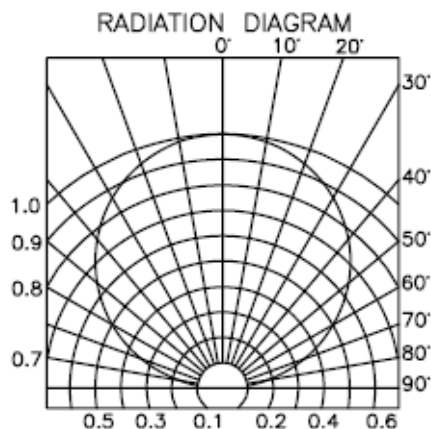
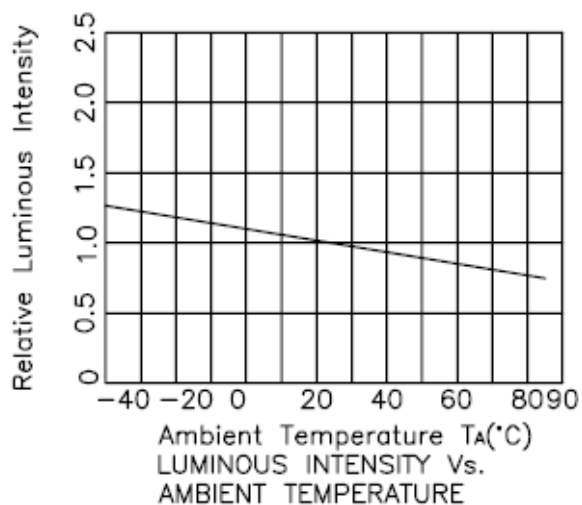
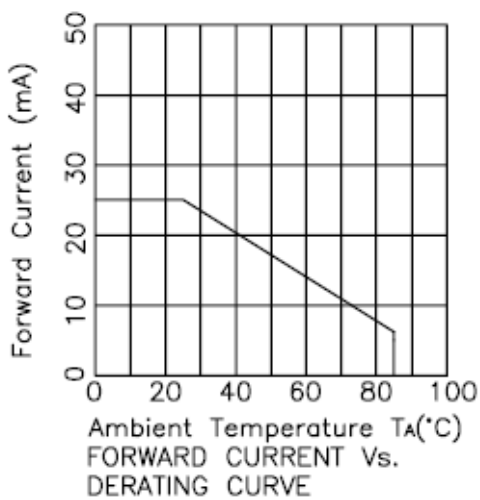
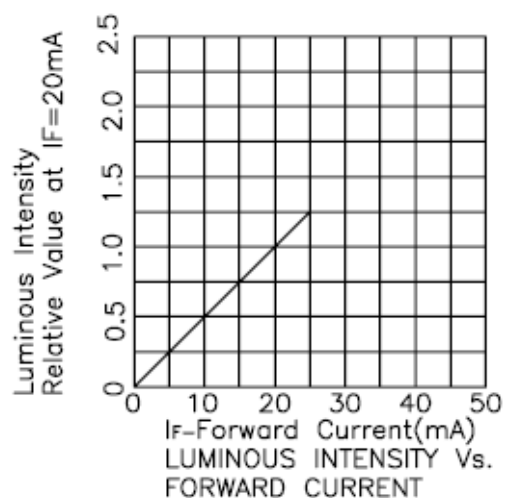
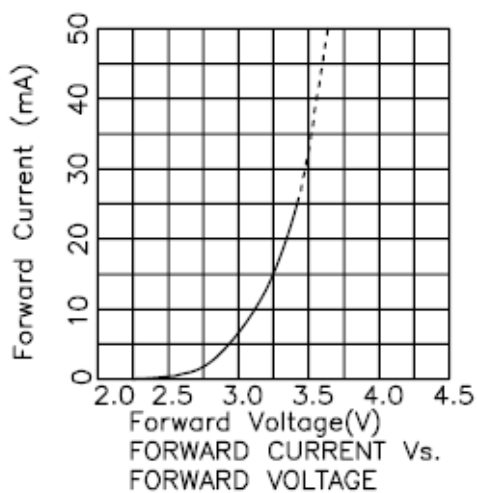
1. All dimensions are in millimeters.
2. Tolerance is ± 0.15 unless otherwise noted.
3. Specifications are subject to change without notice.

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◆ Typical Electrical/Optical Characteristics Curves





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◆ VF Rank

Rank	VF(V)		Condition
	Min	Max	
G	2.8	3.0	IF=20mA
H	3.0	3.2	
J	3.2	3.4	
K	3.4	3.6	

Tolerance:±0.1V

◆ IV Rank

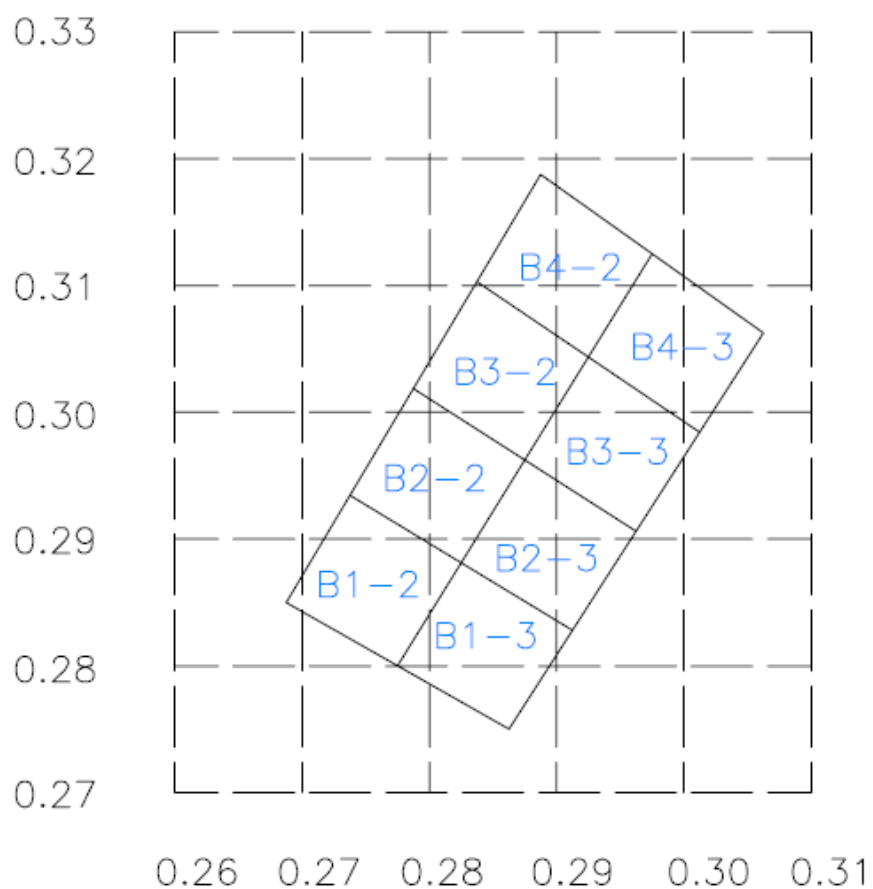
Rank	IV(mcd)		Condition
	Min	Max	
U	500	650	IF=20mA
V	650	845	
W	845	1100	

Tolerance:±15%



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◆ X/Y Rank



B1-2	X	0.274	0.282	0.277	0.269	B1-3	X	0.282	0.291	0.286	0.277
	Y	0.293	0.288	0.280	0.285		Y	0.288	0.283	0.275	0.280
B2-2	X	0.279	0.287	0.282	0.274	B2-3	X	0.287	0.296	0.291	0.282
	Y	0.302	0.296	0.288	0.293		Y	0.296	0.291	0.283	0.288
B3-2	X	0.284	0.293	0.287	0.279	B3-3	X	0.293	0.301	0.296	0.287
	Y	0.310	0.304	0.296	0.302		Y	0.304	0.298	0.291	0.296
B4-2	X	0.289	0.297	0.293	0.284	B4-3	X	0.297	0.306	0.301	0.293
	Y	0.319	0.312	0.304	0.310		Y	0.312	0.306	0.298	0.304

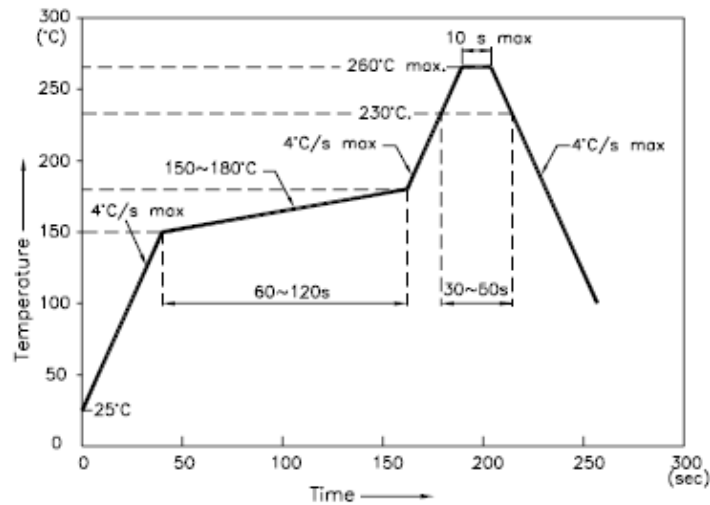
Tolerance: ±0.005



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◆ Soldering Profile

Reflow Soldering Profile For Lead-free SMT Process.

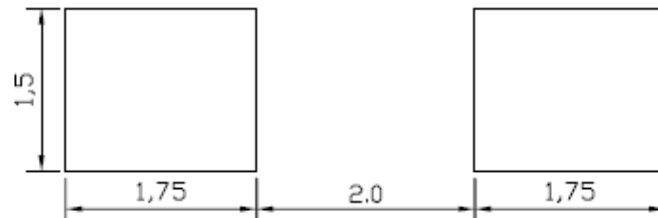


NOTES:

1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. Number of reflow process shall be 2 times or less.

◆ Recommended soldering pattern

(Units:mm)



◆ Tape specifications

(Units:mm)

