



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO S5060ANW4

5060 Package 5.0*6.0mm TOP LED

Features

- 5.0 x 6.0 mm Top LED
- Compatible with ip67
- Compatible with reflow
- Package: 1000 pieces per reel

Applications

- Indicators
- Automotive backlighting in dashboard and switch
- Backlight for LCD

Dice material	Emitted color	Le
InGaN	White	Water clear

Electrical/Optical Characteristics ($T_a = 25^\circ C$)

Parameter	Symbol	Condition	Min	Type
Luminous Intensity	Iv	IF= 20mA *3	49.00	8000
Dominant Wavelength	IF= 20mA *3			nm
Color Temperature	Tc	IF= 20mA *3	6500	
Peak Emission Wavelength	λ_p	x : 0.310 y : 0.320	IF= 20mA *3	nm
Viewing Angle	$2\Theta_{1/2}$	IF= 20mA *3	12.0	
Forward Voltage	F	IF= 20mA *3	3.0	3.3
Reverse Current	R	VR = 5V		10

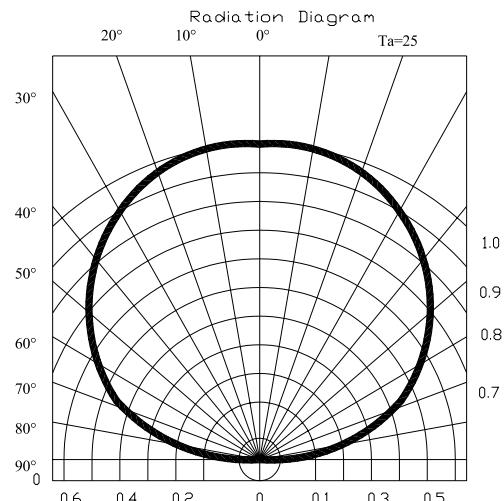
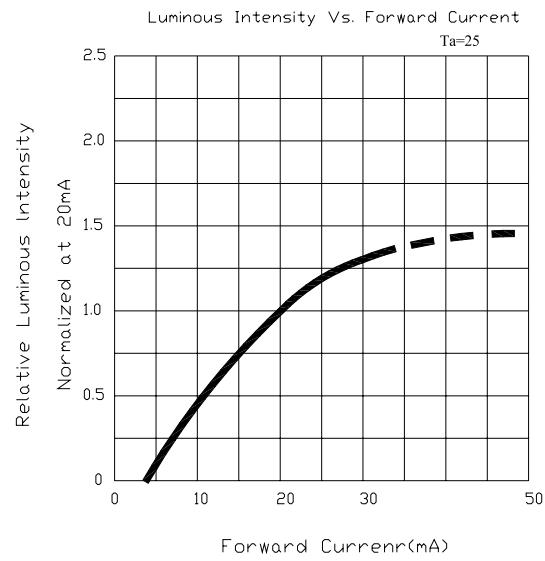
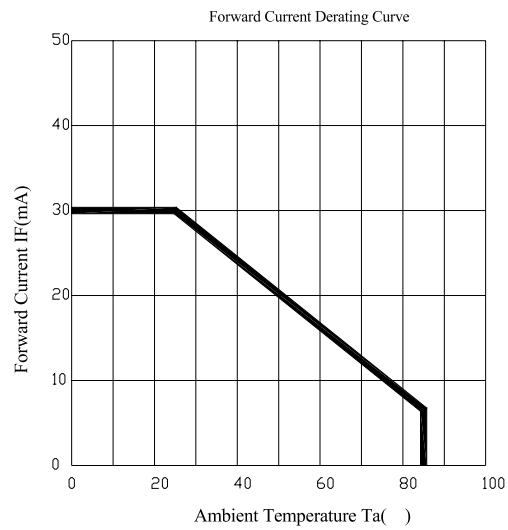
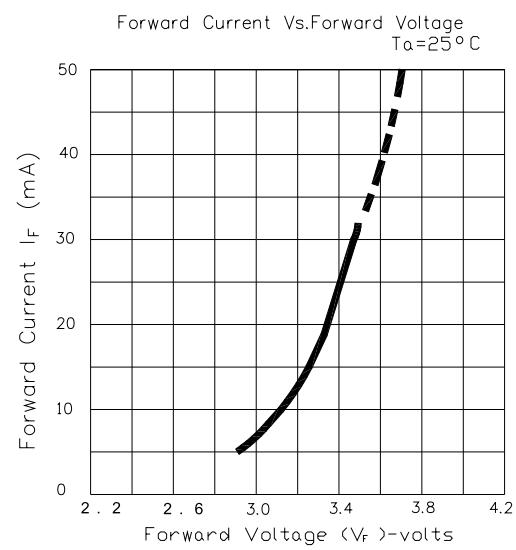
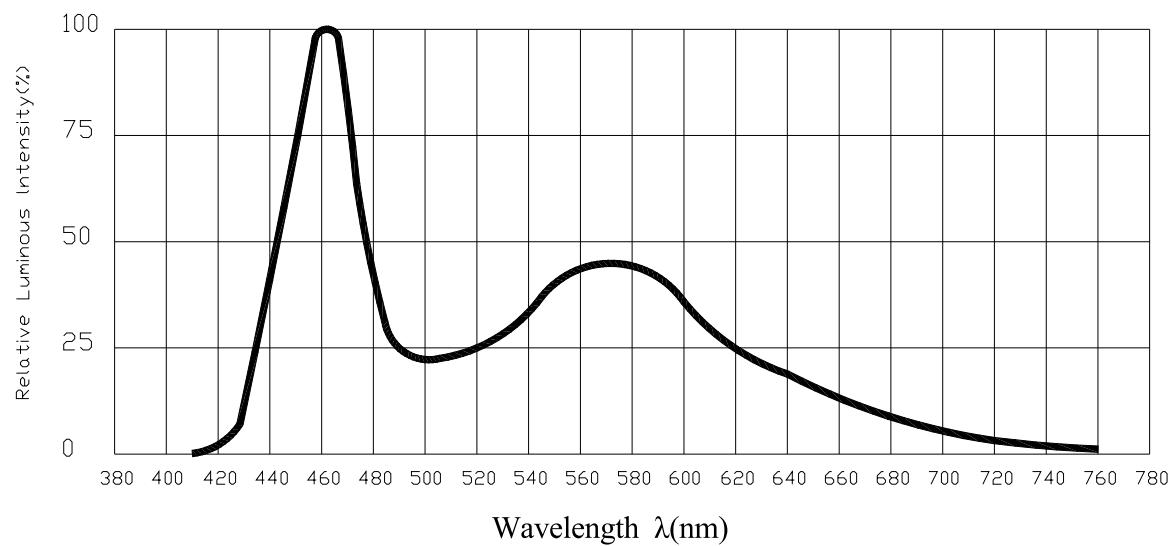
Absolute Maximum Ratings ($T_a = 25^\circ C$)

Parameter	Symbol	Max
Power Dissipation	Pd	315 mW
Peak Forward Current (1/10 Duty Cycle)	IF (Pmax Pulse width)	mA
Continuous Forward Current	IF	30 mA
Reverse Voltage	VR	5 V
Derating Linear From 25		0.3 mA /
Operating Temperature Range	To pr	-30 to +80
Storage Temperature Range	Tstg	-40 to +90



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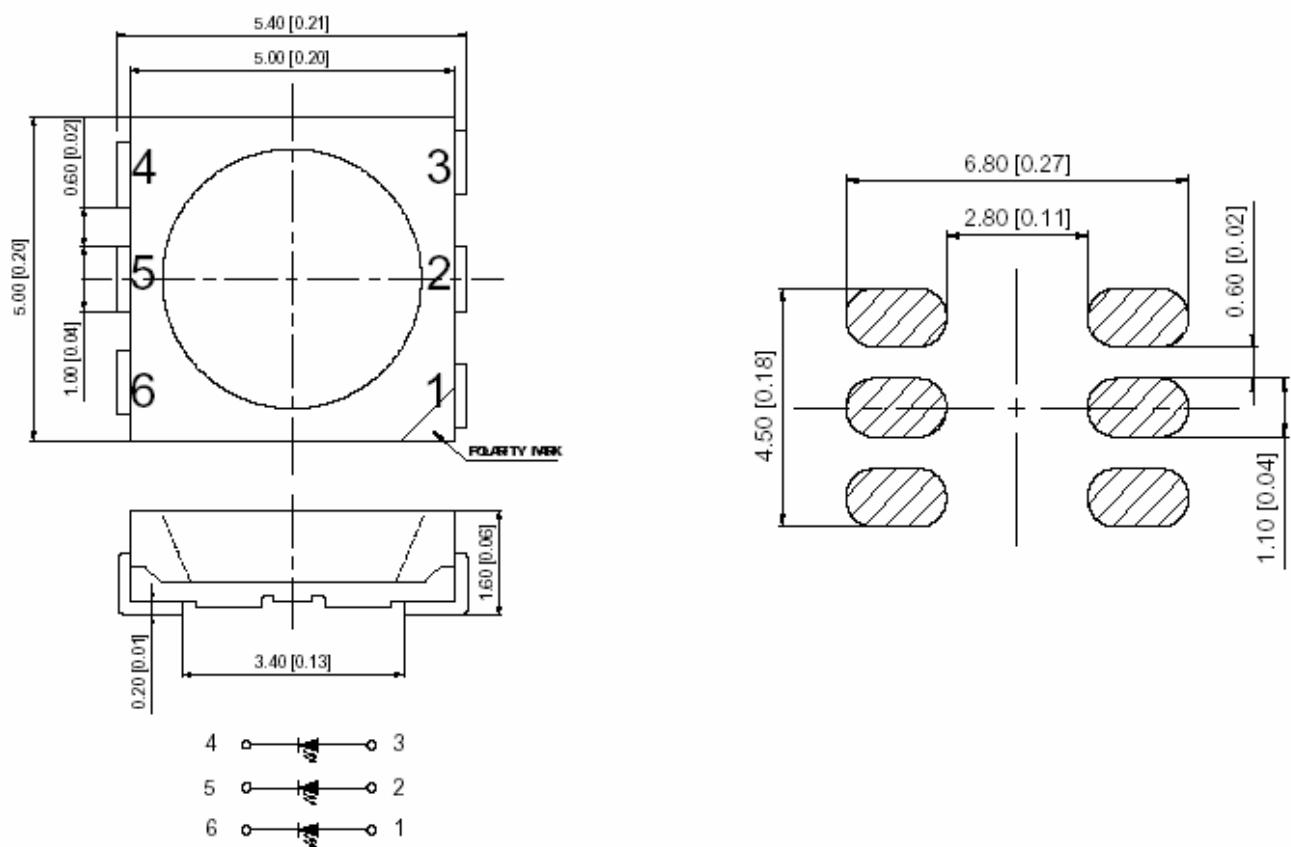
Spectrum Distribution





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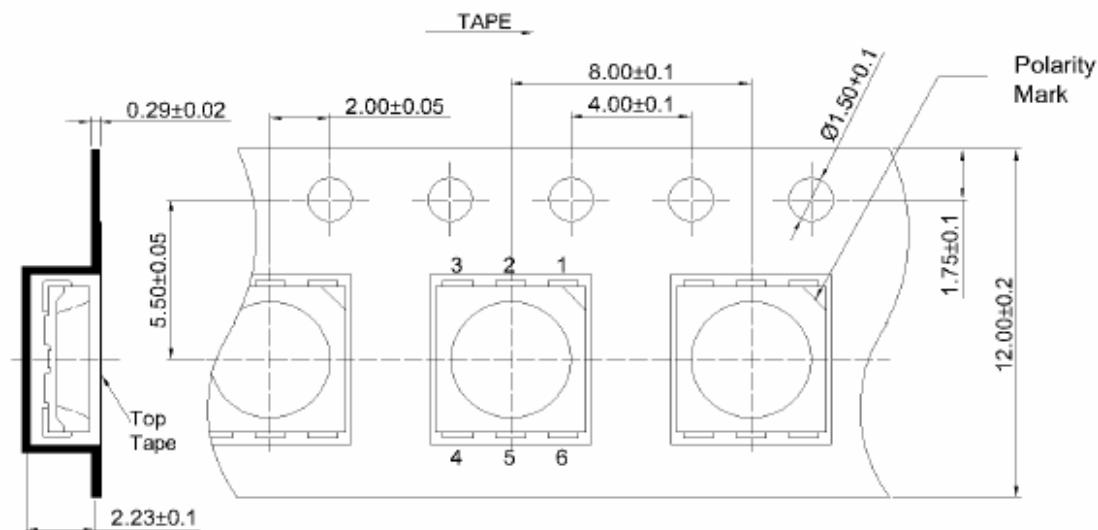
• Package Dimensions



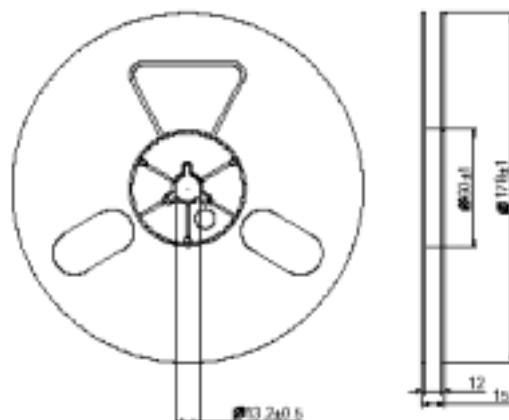


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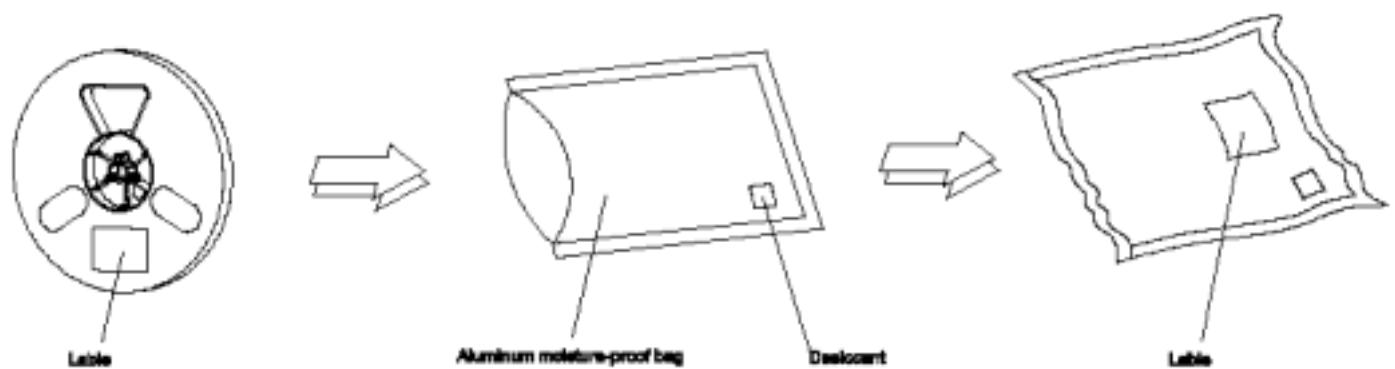
Tape Specifications (Units : mm)



Reel Dimensions



Moisture Resistant Packaging





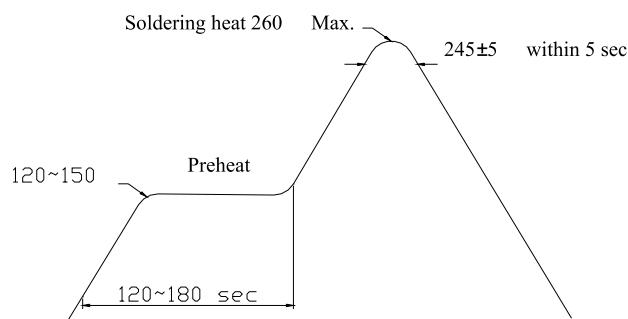
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● Descriptions

- The Chip-LED Taping is much smaller than lead frame type components, thus enable smaller board size, higher packing density, reduced storage space and finally smaller equipment to be obtained.
- Besides, lightweight makes them ideal for miniature application, etc.

● Soldering heat reliability DIP

Please refer to the following figure



● Precautions For Use

- Over-current-proof

Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change Burn out will happen

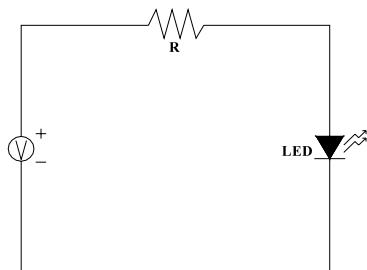
- Storage

1. The operation of temperature and R.H. are 5 ~ 30 , 60 R.H. Max..
2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a damp-proof box with desiccating agent. Considering the tape life, we suggest our customers to use our products within 1.5 year from production date .
3. It's recommended to bake before soldering when the package is unsealed after 72 hrs. The condition is : 60 ±5 for 15hrs.

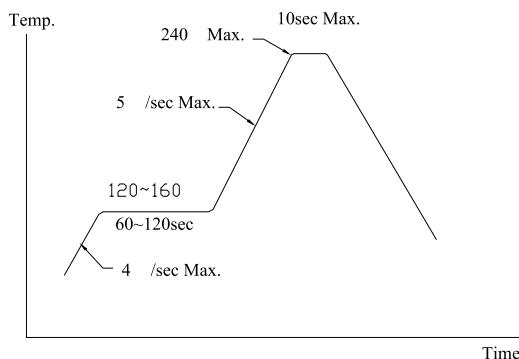


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- **Test Circuit**



- **Reflow Temp./ Time**



- **Reliability Test Items And Conditions**

The reliability of products shall be satisfied with items listed below.

No.	Items	Test Condition	Test Hours/Cycles	Sample Size
1	Solder Heat	TEMP 260 ±5	5 sec	48 pcs
2	Temperature Cycle	90 ~ 25 ~ -30 ~ 25 30m 5m 30m 5m	300Cycles	48 Pcs
3	Thermal Shock	100 ~ -55 10m 10m	100Cycles	48 Pcs
4	Operation Life	If=20mA	1000 Hrs	48 Pcs
5	High Temperature Storage	Temp:90	1000Hrs	48 Pcs
6	Low Temperature Storage	Temp:-30	1000Hrs	48 Pcs
7	High Temperature/High Humidity	80 / R.H80%	1000Hrs	48 Pcs