

Technical Data Sheet

MODEL NO: S5060ANW4 5060 Package 5.0*6.0mm TOP LED

Features:

5.0 x 6.0mm Top LED

Compatible with automatic placement equipment

Compatible with reflow solder process

Package: 1000 pieces per reel

Applications:

Indicators

Automotive: backlighting in dashboard and switch

Backlight for LCD

Dice material	Emitted color	Lens Color
InGaN	White	Water Clear

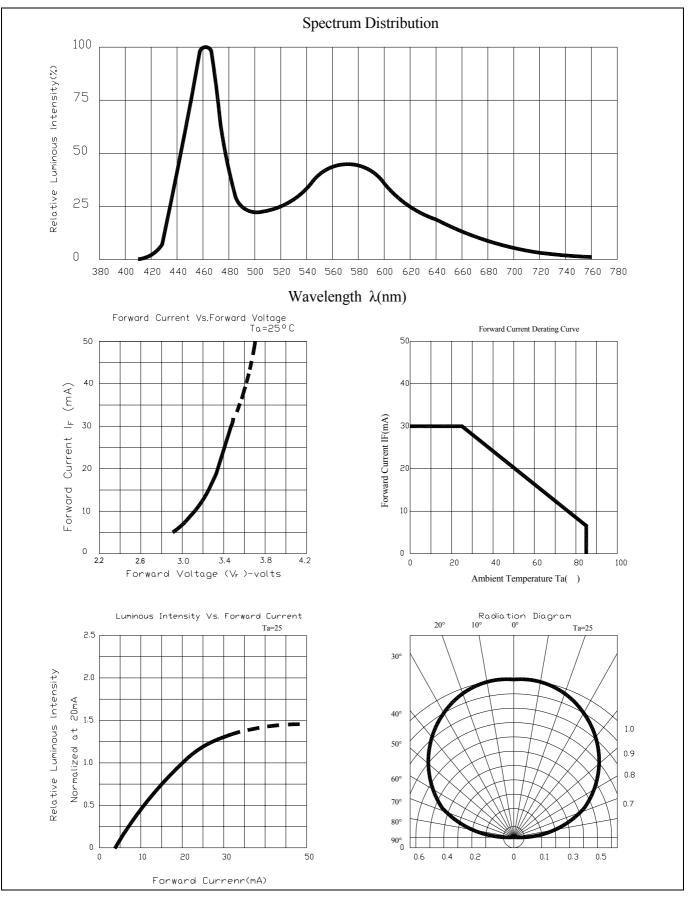
Electrical/Optical Characteristics(Ta=25)

Parameter	Symbol	Condition	Min	Тур.	Max	Unit
Luminous Intensity	lv	IF=20mA*3	4900	8000		mcd
Dominant Wavelength	D	IF=20mA*3				nm
Color Temperature	Tc	IF=20mA*3		6500		K
Peak Emission Wavelength	р	IF=20mA*3		x:0.310		nm
				y:0.320		
Viewing Angle	2 1/2	IF=20mA*3		120		Deg
Forward Voltage	VF	IF=20mA*3	3.0 3.3			V
Reverse Current	IR	VR=5V			10	μA

Absolute Maximum Ratings(Ta=25)

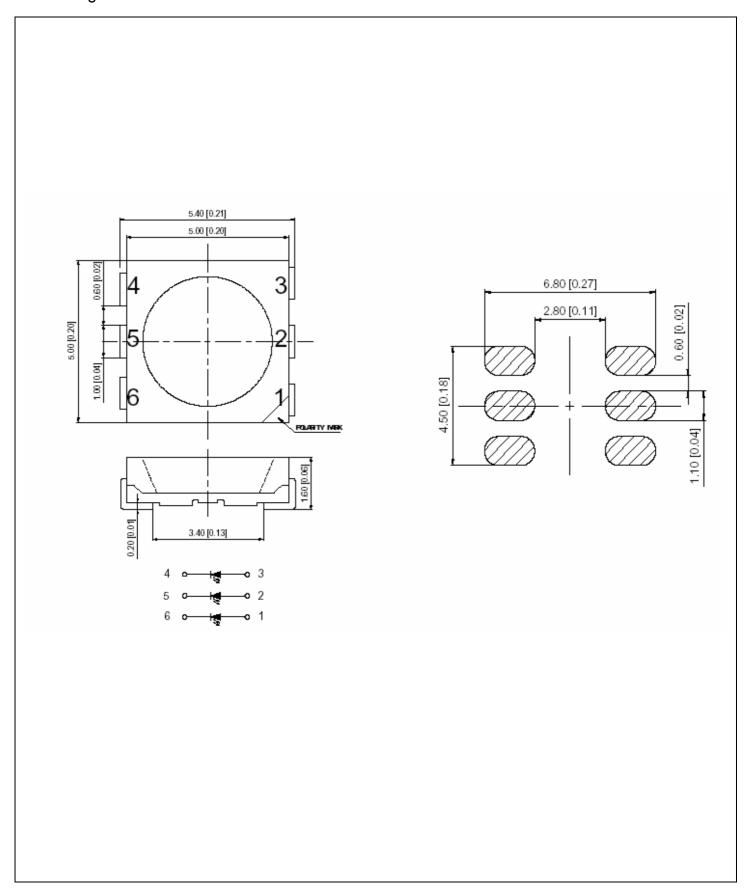
Parameter	Symbol	Maximum	Unit
Power Dissipation	Pd	315	mW
Peak Forward Current(1/10 Duty Cycle 0.1ms Pulse Width)	IF(Peak)	300	mA
Continuous Forward Current	lF	30	mA
Reverse Voltage	VR	5	V
Derating Linear From 25		0.3	mA/
Operating Temperature Range	Topr	-30 to +80	
Storage Temperature Range	Tstg	-40 to +90	



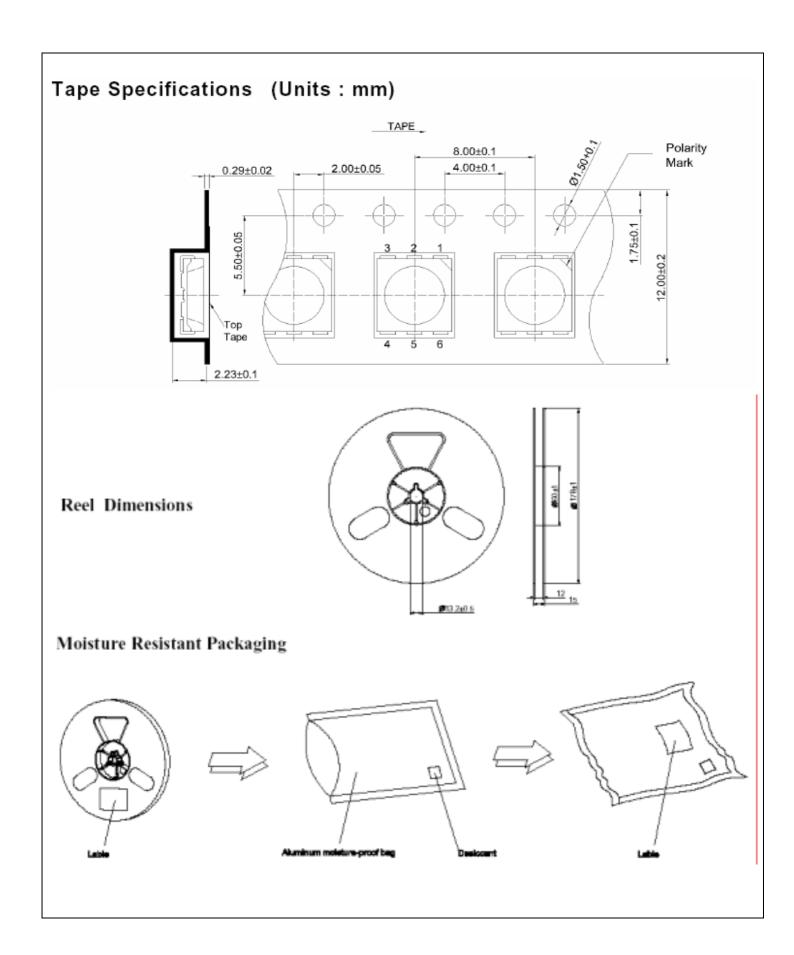




Package Dimensions







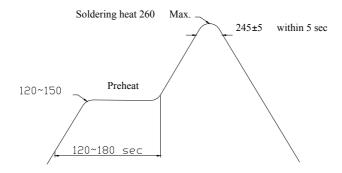


Descriptions:

- 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:



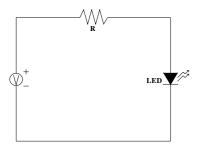
Precautions For Use:

- Over current proof

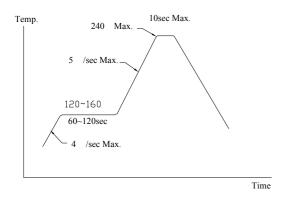
 Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change (Burn out will happen)
- Storage
- 1. The operation of temperature and R.H. are: 5 30, 60% R.H. Max..
- 2. Once the package is opened, the products should be used within a week. Otherwise, they should be kept in a dampproof box with desiccating regent. 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.



Test Circuit



Reflow Temp. / Time:



Reliability Test Items And Conditions

The reliability of products shal 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 Shick	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