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Technical Data Sheet

MODEL NO： S776ANX4P **2835 WHITE SMD**

Features

●Package: 3000pcs per reel

●Compatible with automatic placement equipment

●Compatible with reflow solder process

Applications：

●Indicators

●Automotive：backlighting in dashboard and switch

Part Number	Dice material	Emitted color	Lens Color
S776ANW4P	InGaN	White	Yellow diffused
S776ANPW4P		Pure-White	
S776ANWW4P		Warm White	

Electrical/Optical Characteristics(Ta=25℃)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Luminous Flux (Cool White)	I_F=60mA	φ (lm)		22		lm
Luminous Flux (Pure White)	I_F=60mA	φ (lm)		22		lm
Luminous Flux (Warm White)	I_F=60mA	φ (lm)		20		lm
Luminous Intensity (Cool White)	I_F=60mA	Iv	7300		12000	mcd
Luminous Intensity (Pure White)	I_F=60mA	Iv	7300		12000	mcd
Luminous Intensity (Warm White)	I_F=60mA	Iv	6100		9000	mcd
Color Temperature (Cool White)	IF=60mA	CCT		7000		K
Color Temperature (Pure White)	I_F=60mA	CCT		4000		K
Color Temperature (Warm White)	I_F=60mA	CCT		3000		K
Color Rendering Index	I_F=60mA	Ra	80			-
Forward voltage	I_F=60mA	V_F	2.8		3.6	V
Viewing angle	I_F=60mA	2θ 1/2		120		Deg
Reverse current	V_R=5V	I_R			10	μA

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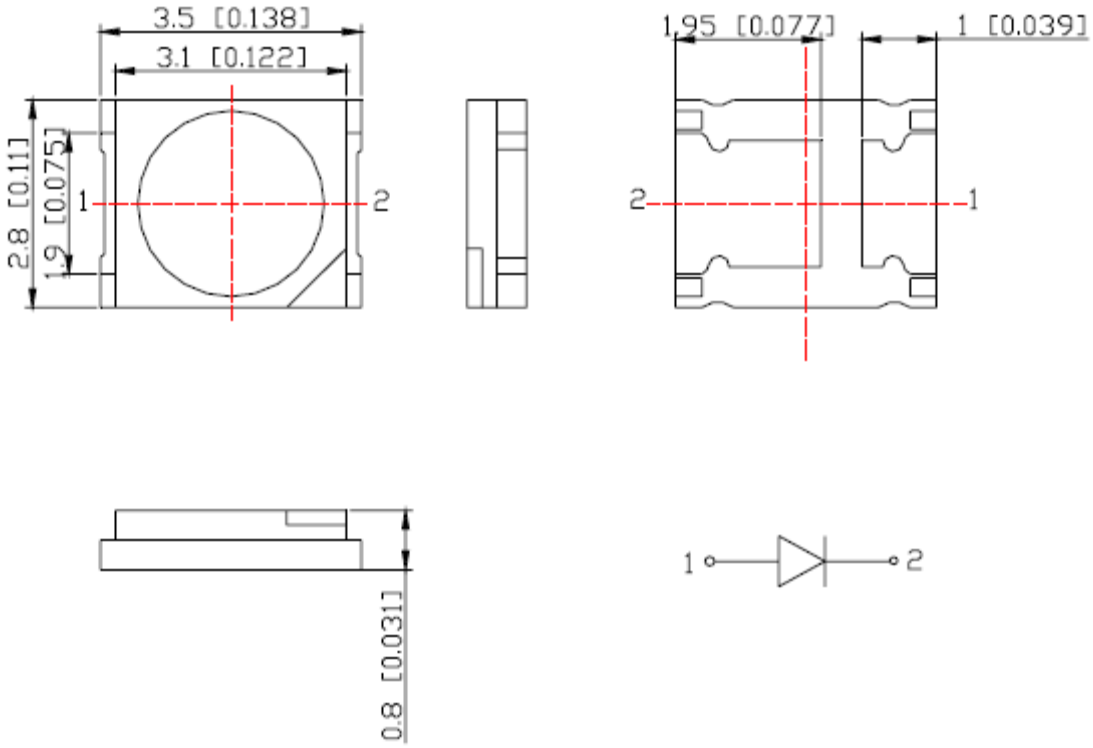
Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Value	Unit
Power dissipation	Pd	200	mW
Forward current	I_F	60	mA
Reverse voltage	V_R	5	V
Operating temperature range	Top	-40 ~+85	℃
Storage temperature range	Tstg	-40 ~+100	℃
Peak pulsing current (1/10 duty f=1kHz)	I_{FP}	120	mA

PACKAGING DIMENSIONS (mm):



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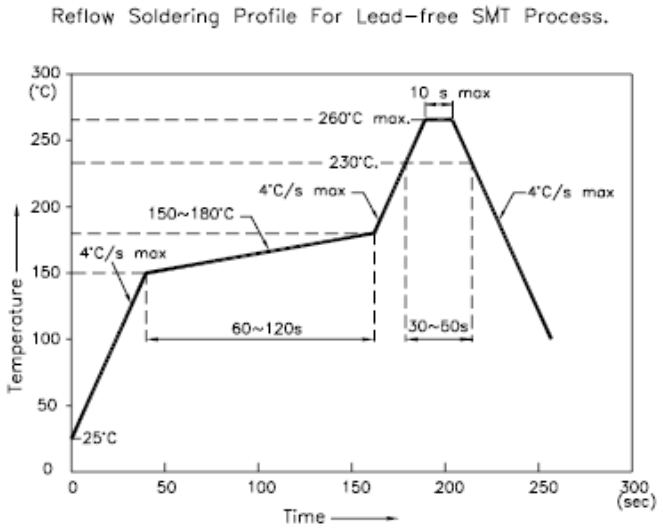
◆ Soldering Profile

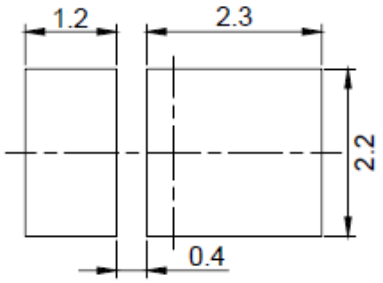


NOTES:

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.

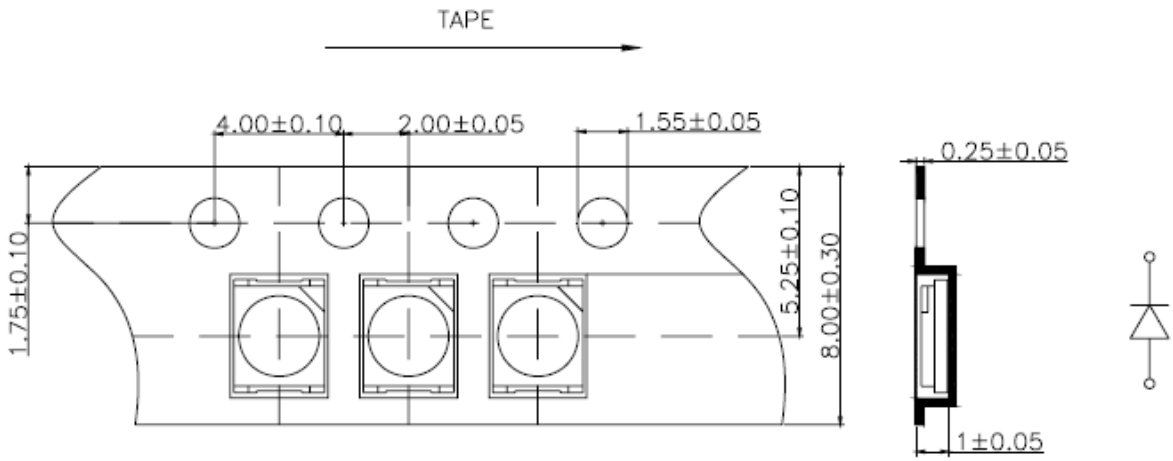
◆ Recommended soldering pattern

(Units:mm)



◆ Tape specifications

(Units:mm)



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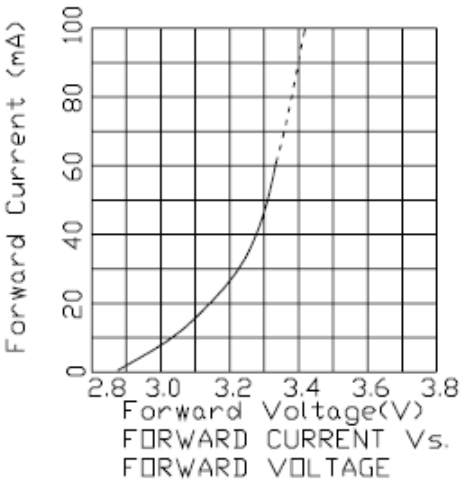
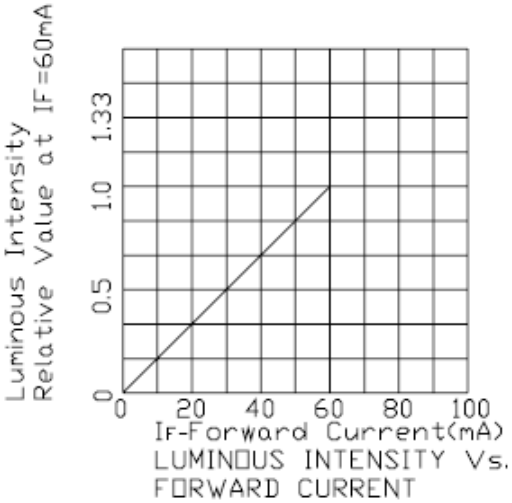
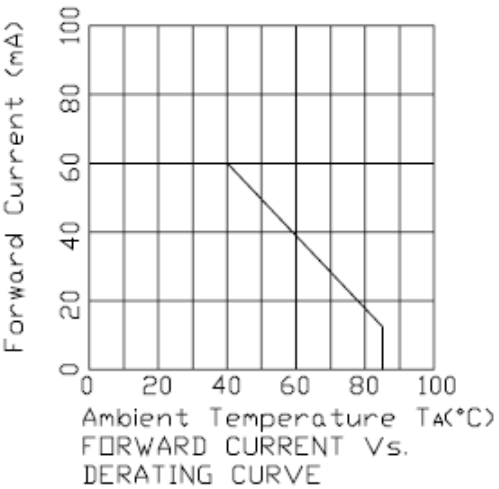


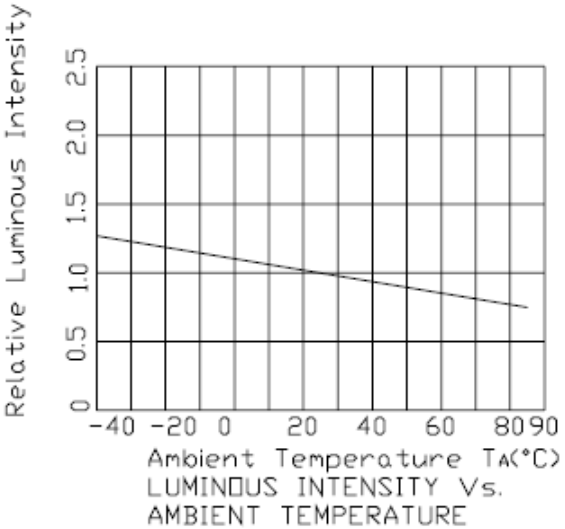
FORWARD CURRENT Vs.
FORWARD VOLTAGE



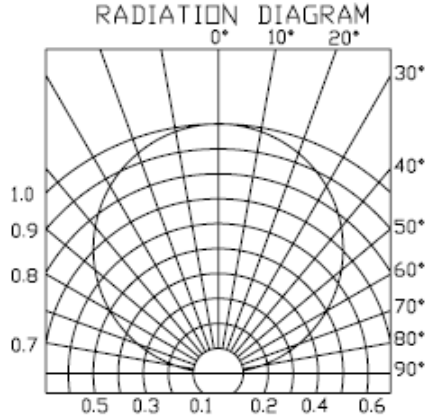
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT Vs.
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



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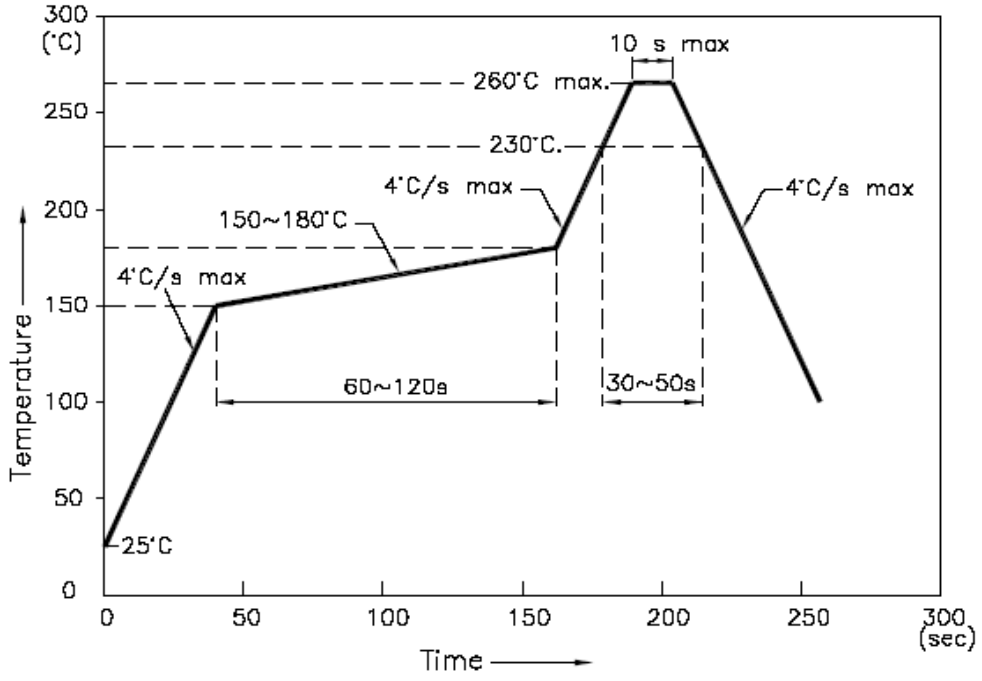
Precautions For Use：
Over－current－proof
Customer must apply resistors for protection, otherwise slight voltage shift will cause big current change （Burn out will happen）
Storage
1. The operation of temperature and R.H. are：5℃～30℃, 60％R.H. Max.
2. Once the package is opened, the products should be used 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.

■ Reflow Temp/Time



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NOTES:

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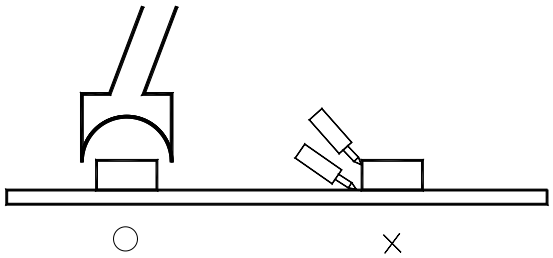
■Soldering iron

Basic spec is ≤ 5sec when 260℃. If temperature is higher, time should be shorter (+10℃→ -1sec).Power dissipation of iron should be smaller than 20W, and temperatures should be controllable .Surface temperature of the device should be under 230℃ .

■Rework

1. Customer must finish rework within 5 sec under 260℃.
2. The head of iron can not touch copper foil
3. Twin-head type is preferred.



■ **Avoid rubbing or scraping the resin by any object, during high temperature, for example reflow 、solder etc.**