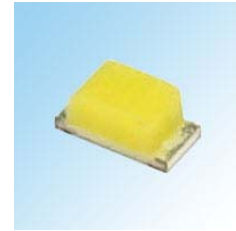




ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

WHITE



Features

- 0603 pack.
- Low power consumption.
- Wide viewing angle.
- Compatible with infrared and vapor phase reflow solder process.
- Package: 4000pcs/ reel .

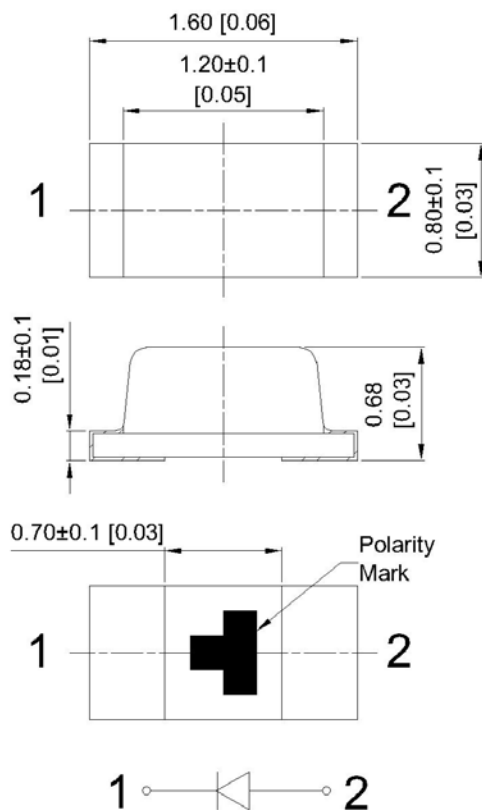
Description

This devices are made with TS GaN.

Applications

- Indicator and backlighting in telephone and fax.
- Flat backlight for LCD.
- Switch and symbol.
- General use.

Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is ±0.2mm unless otherwise noted.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 5mA		Viewing Angle
			Min.	Typ.	2θ1/2
OF-SMD1608W	WHITE (InGaN)	Yellow Diffused	70	120	120°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

2. Tolerance of luminous Intensity ±10%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Typ.	Units	Test Conditions
V _F	Forward Voltage	White	3.0	3.2	V	I _F =5mA
I _R	Reverse Current	White		5	uA	V _R = 5V
X	Chromaticity Coordinates	White		0.27		
Y				0.28		
C	Capacitance	White		100	pF	V _F =0V;f=1MHz

Absolute Maximum Ratings at TA=25°C

Parameter	White	Units
Power dissipation	54	mW
DC Forward Current	15	mA
Peak Forward Current [1]	100	mA
Reverse Voltage	5	V
Operating / Storage Temperature	-40°C To +85°C	

Note:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.

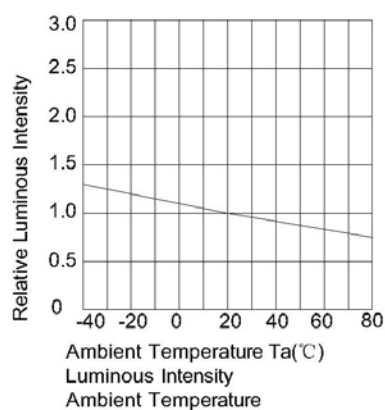
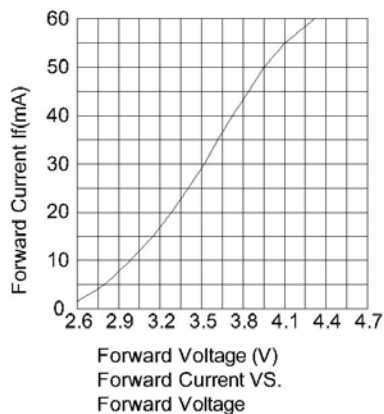
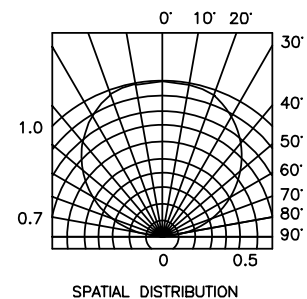
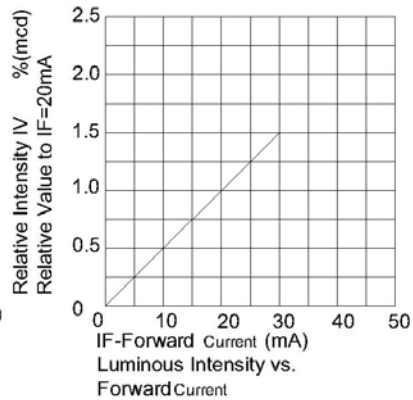
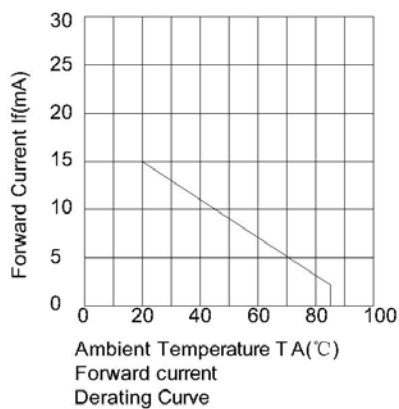
White

Reliability Test Items And Conditions

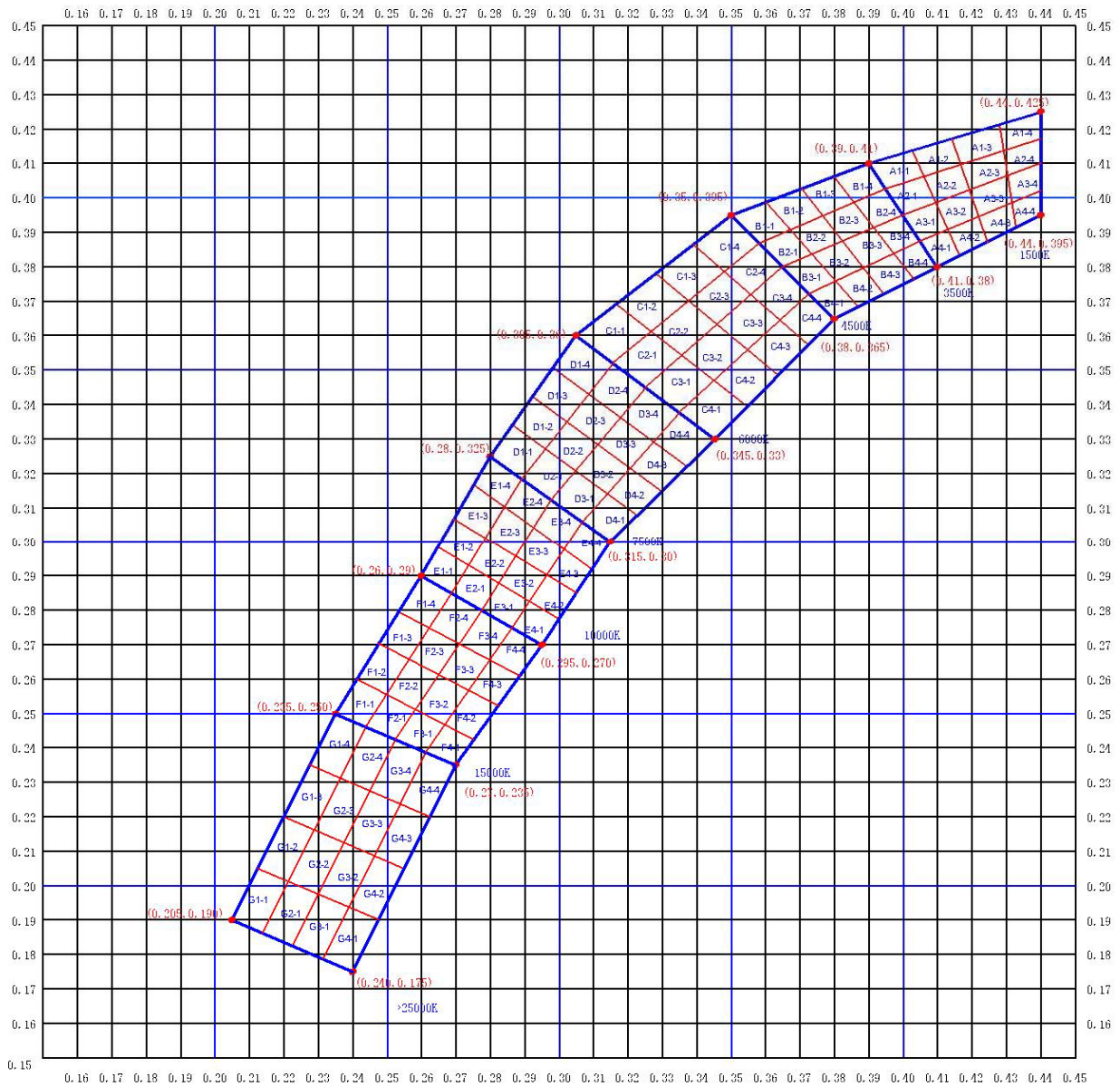
The reliability of products shall be satisfied with items listed below.
Confidence level :90% LTPD :10%

No.	Items	Test Condition	Test Hours/Cycles	Sample Size	Ac/Rc
1	Reflow	Temp:260°C±5°C Min.5 sec.	6 Min.	22Pcs.	0/1
2	Temperature Cycle	H:+100°C 15 min. ∞ 5 min L:-40°C 15 min.	300 Cycles	22Pcs.	0/1
3	Thermal Shock	H:+100°C 5 min. ∞ 10 sec. L:-10°C 5 min.	300 Cycles	22Pcs.	0/1
4	High Temperature Storage	Temp.:100°C	1000Hrs.	22Pcs.	0/1
5	Low Temperature Storage	Temp.: -40°C	1000Hrs.	22Pcs.	0/1
6	DC Operating Life	I _F =20mA	1000Hrs.	22Pcs.	0/1
7	High Temperature/High Humidity	85°C/85%RH	1000Hrs.	22Pcs.	0/1

*The technical information shown in the data sheets are limited to the typical characteristics and circuit examples of the referenced products. It does not constitute the warranting of industrial property nor the granting of any license.



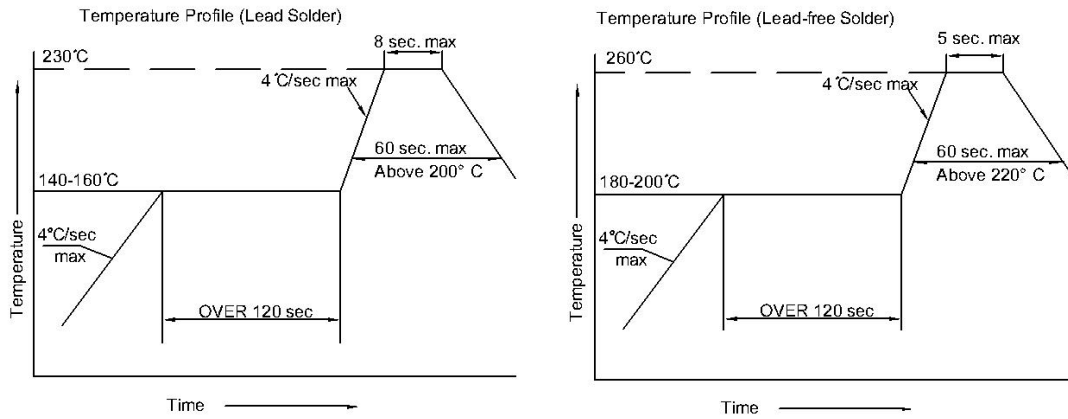
CIE CHROMATICITY DIAGRAM



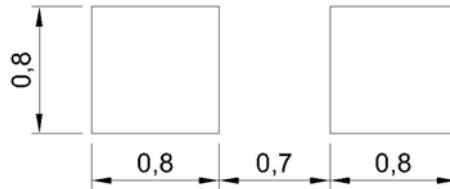
G☒ X:0.24 Y:0.22	X	0.205	0.235	0.270	0.240	C☒ X:0.35 Y:0.36	X	0.305	0.350	0.380	0.345
	Y	0.190	0.250	0.235	0.175		Y	0.360	0.395	0.365	0.330
F☒ X:0.265 Y:0.26	X	0.235	0.260	0.295	0.270	B☒ X:0.38 Y:0.38	X	0.350	0.390	0.410	0.380
	Y	0.250	0.290	0.270	0.235		Y	0.395	0.410	0.380	0.365
E☒ X:0.285 Y:0.30	X	0.260	0.280	0.315	0.295	A☒ X:0.41 Y:0.40	X	0.390	0.440	0.440	0.410
	Y	0.290	0.325	0.300	0.270		Y	0.410	0.425	0.395	0.380
D☒ X:0.31 Y:0.33	X	0.280	0.305	0.345	0.315	Tolerance for each Bin limit is ± 0.15 .					
	Y	0.325	0.360	0.330	0.300						

SMT Reflow Soldering Instructions

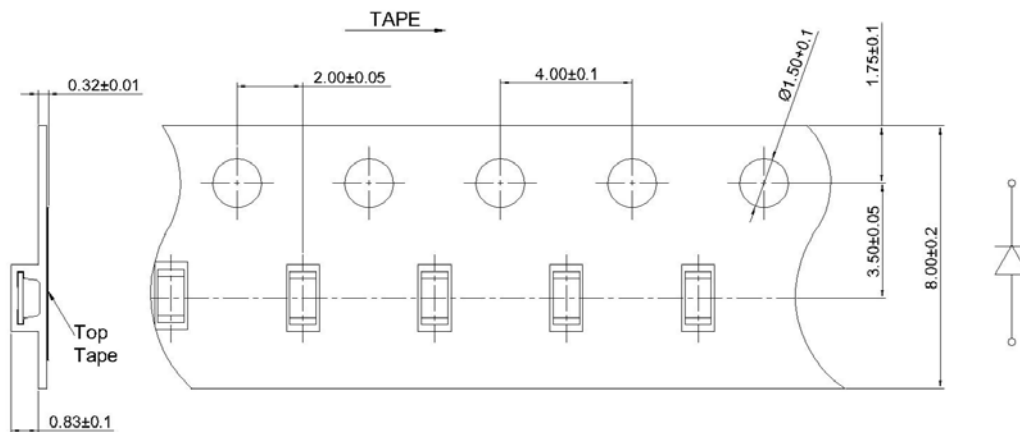
Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



**Recommended Soldering Pattern
(Units : mm)**



**Tape Specifications
(Units : mm)**



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