

FYLS-3528UW3C

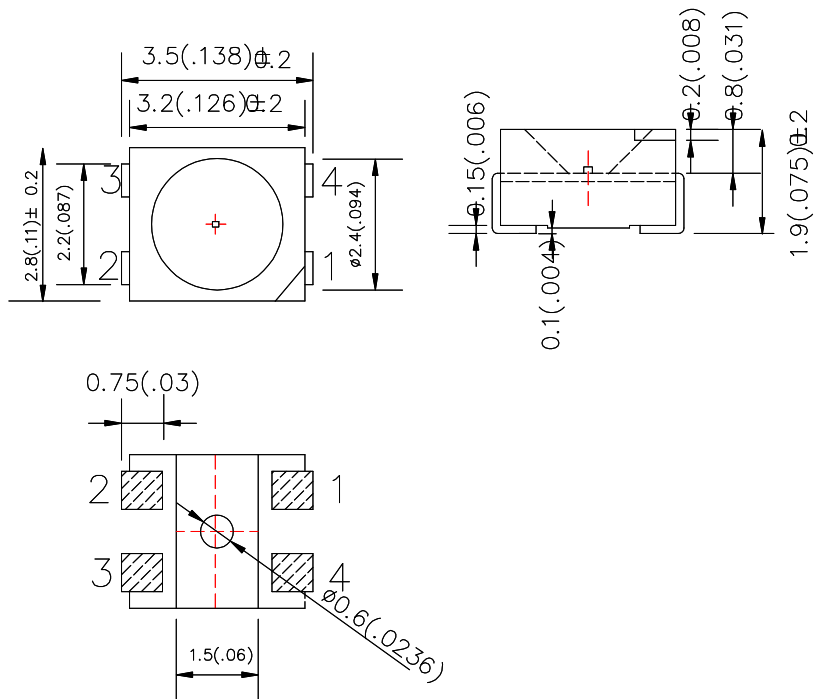
Features:

- Chips can be controlled separately.
- Suitable for all SMT Assembly and solder process.
- Available on tape and Reel
- Package :2000pcs/ Reel

Description.

- The White source color devices are made with Gallium arsenide Phosphide on Gallium Phosphide White light Emitting Diode.

Package Dimensions



Notes:

1. All dimension units are millimeters (Inches)
2. All dimension tolerance $\pm 0.2\text{mm}$ unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.

Selection Guide

Part No.	Dice	lens type	IV(mcd)@60mA		Viewing Angle
			Min	Typ	2θ _{1/2}
FYLS-3528UW3C	White(InGaN)	Yellow Diffused	3800	4500	120

Electrical/Optical Characteristics at Ta=25 °c

Symbol	Parameter	Device	min.	typ.	units	test conditions
VF	Forward Voltage	White	3.0	3.2	V	IF=60mA
IR	Reverse Current	White		5	μA	VR=5V
X	Chromaticity Coordinates	White		0.29		IF=60mA
Y				0.30		
Color temperature	CCT	White		9500	K	IF=60mA
C	capactiance	White		100	PF	VF=0V,f=1MHZ

Absolute Maximum Ratings At= 25 °c

Parameter	White	Units
Power dissipation	180	mW
DC Forward Current	20	mA
Peak Forward Current(1)	150	mA
Reverse Voltage	5	V
Operating/storage Temperature	-40°C to +85°C	

Note:

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



Reliability Test items And Conditions

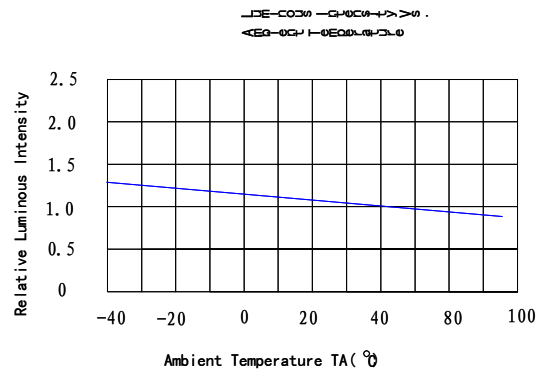
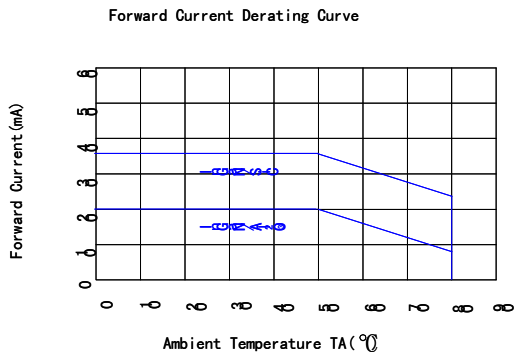
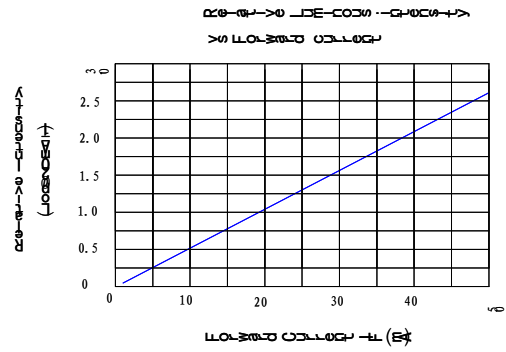
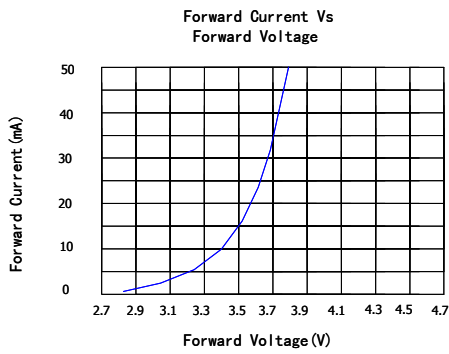
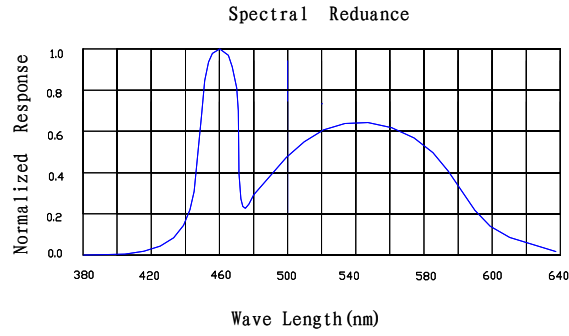
The reliability of products shall be satisfied with items listed below.

Confidence level:90% LTPD:10%

NO.	Items	test condition	test Hours/Cycles	sample Size	Ac/Rc
1	Reflow	Temp:240°C ± 5°C Min:5sec	6Min	22pcs	0/1
2	Temperature cycle	H: +100°C 15min.~5min L:-40°C~ 15min	300 Cycles	22pcs	0/1
3	Thermal shock	H: +100°C 5min.~10sec. L:-10°C 5min	300 Cycles	22pcs	0/1
4	High Temperature Storage	temp:100°C	1000hrs.	22pcs	0/1
5	LOW Temperature Storage	temp:-55°C	1000hrs.	22pcs	0/1
6	DC Operating Life	IF=20mA	1000hrs.	22pcs	0/1
7	High Temperature /High Humidity	85°C/R,H80%	1000hrs.	22pcs	0/1



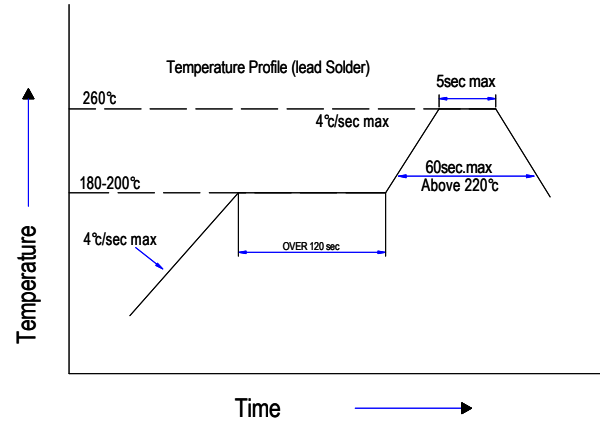
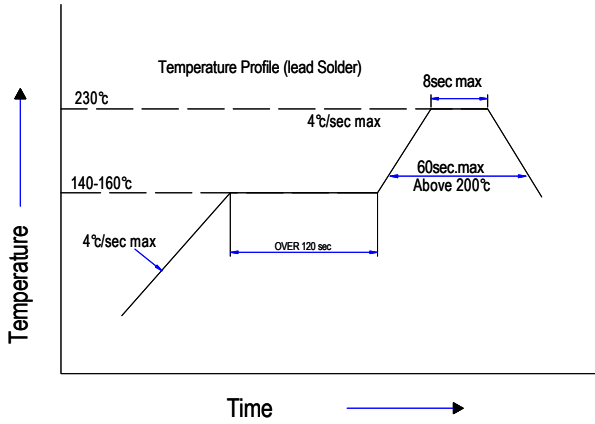
Typical Electrical Characteristics Curves
(25 °c Ambient Temperature Unless Otherwise Noted)



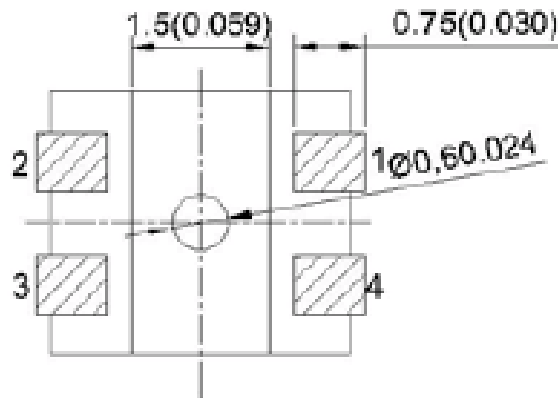
SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling

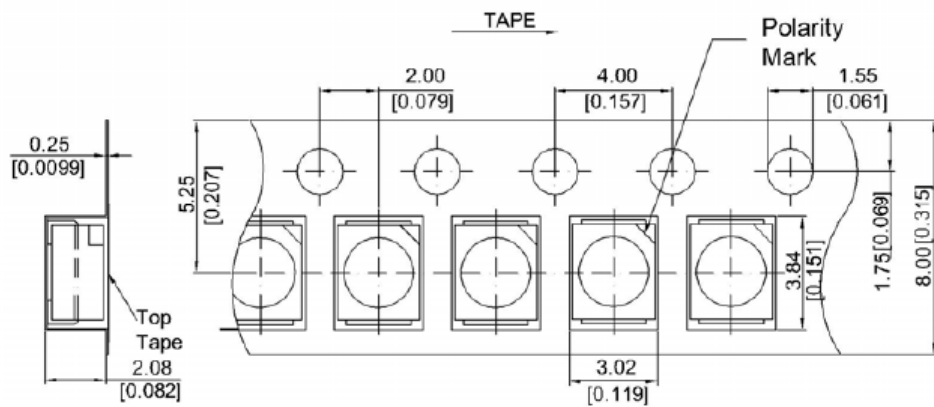
Process to normal temperature is required between first and second soldering process



Recommended Soldering Pattern(Units:mm)



Tape specifications(Units:mm)



◆ Packing and Shipping Spec.

