

FYLS - 3528UAC

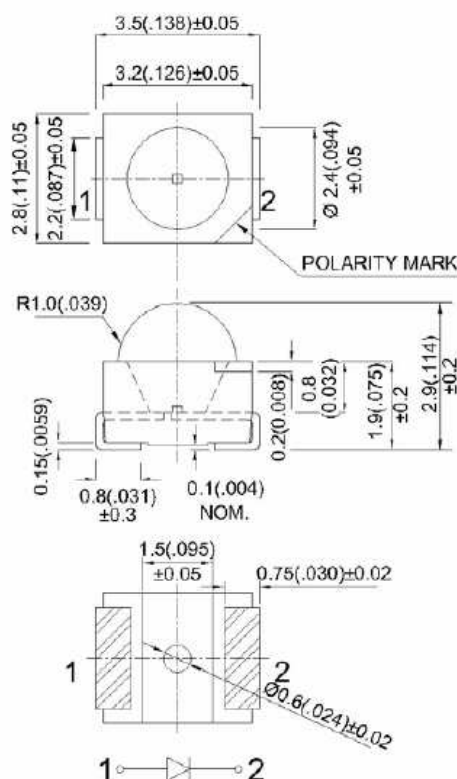
Features:

- Single color
- Suitable for all SMT assembly and solder process.
- Available on tape and Reel
- Package :2000pcs/ Reel

Description.

- The Amber source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Amber Light Emitting Diode.
- It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.
- All devices, equipment and machinery must be electrically grounded.

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)@20mA		Viewing Angle
			Min	Typ	2θ _{1/2}
FYLS-3528UAC	Amber (AlGaInp)	Water clear	150	210	120

Electrical/Optical Characteristics at Ta=25 °c

Symbol	Parameter	Device	min.	typ.	units	test conditions
λd	Dominate wavelength	Green	600	603	nm	IF=20mA
VF	Forward Voltage		1.8	2.0	V	IF=20mA
IR	Reverse Current			5	μA	VR=5V

Absolute Maximum Ratings At= 25 °c

Parameter	White	Units
Power dissipation	70	mW
DC Forward Current	30	mA
Peak Forward Current(1)	140	mA
Reverse Voltage	5	V
Operating/storage Temperature	-40℃ to +85℃	

Note:

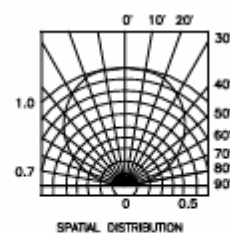
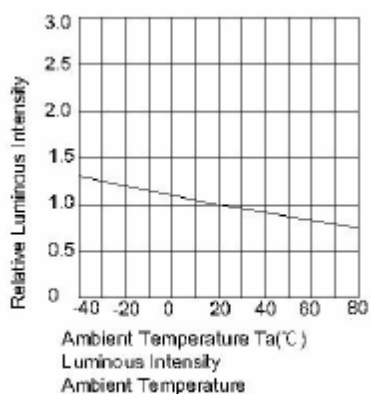
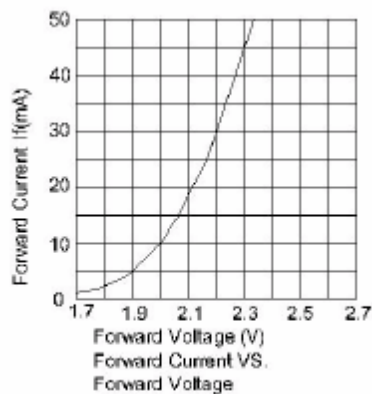
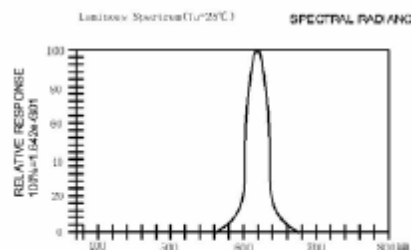
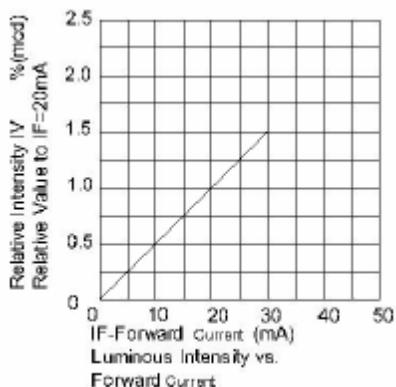
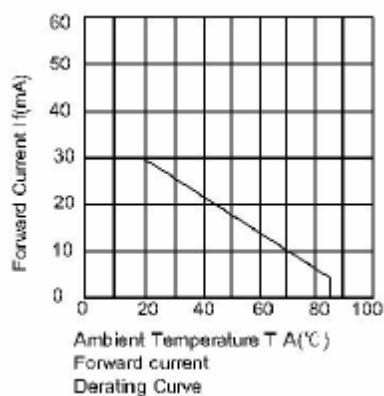
- 1/10 Duty Cycle, 0.1ms Pulse Width.

Reliability Test items And Conditions

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

Confidence level:90% LTPD:10%

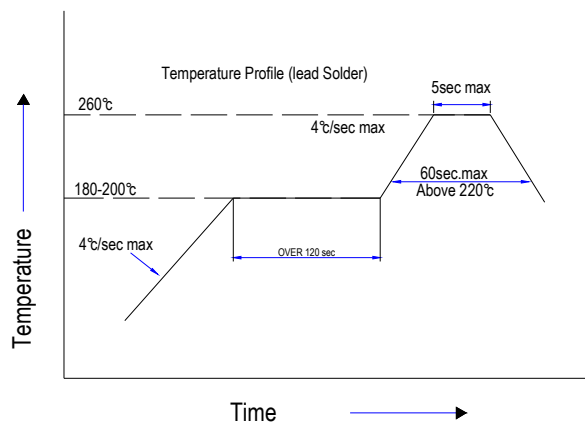
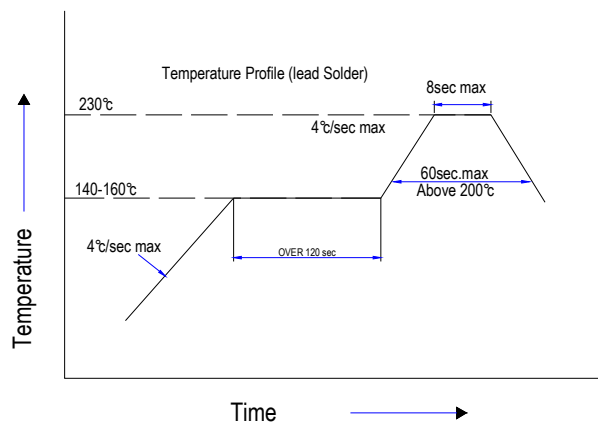
NO.	Items	test condition	test Hours/Cycles	sample Size	Ac/Rc
1	Reflow	Temp:240℃±5℃ Min:5sec	6Min	22pcs	0/1
2	Temperature cycle	H: +100℃ 15min.~5min L:-40℃~ 15min	300 Cycles	22pcs	0/1
3	Thermal shock	H: +100℃ 5min.~10sec. L:-10℃ 5min	300 Cycles	22pcs	0/1
4	High Temperature Storage	temp:100℃	1000hrs.	22pcs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



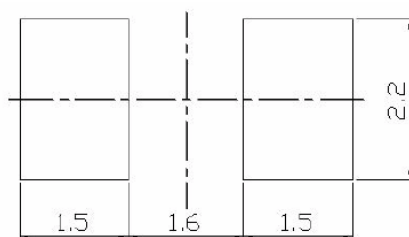
SMT Reflow Soldering Instructions

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

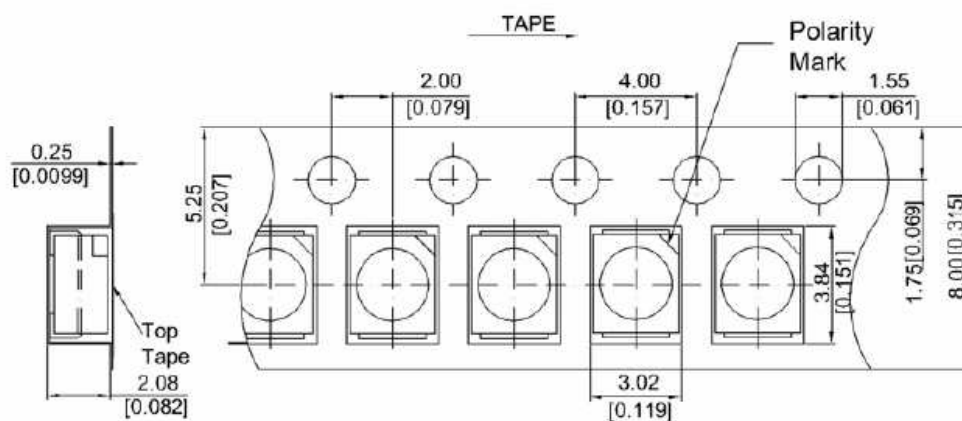
Process to normal temperature is required between first and second soldering process



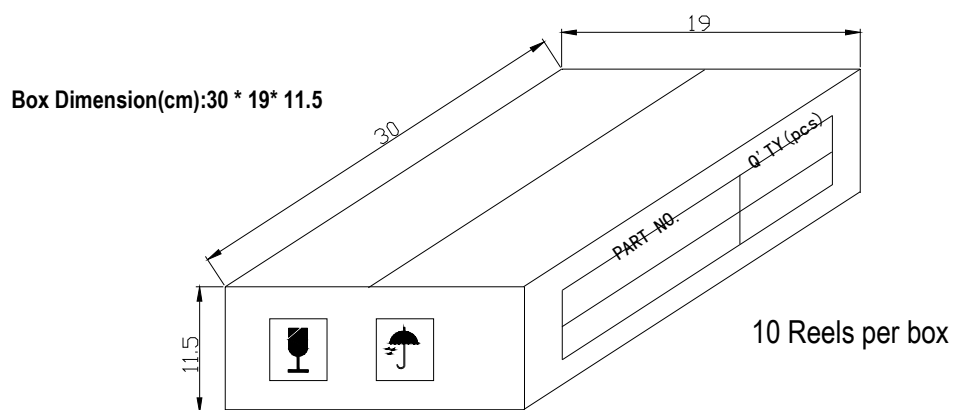
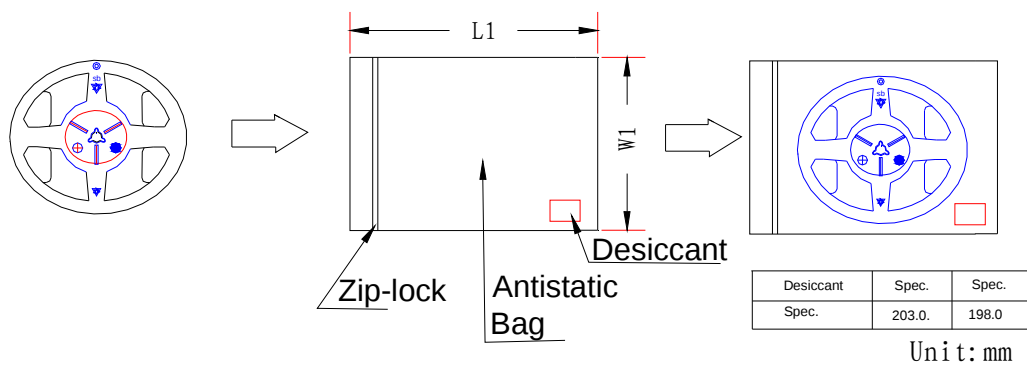
Recommended Soldering Pattern(Units:mm)



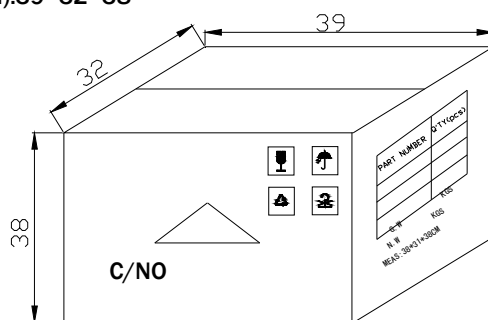
Tape Specifications (Units : mm)



◆ Packing and Shipping Spec.



CARTON
Dimension(cm):39*32*38



6boxes/carton
0603B/0603/0805:
4000pcs*10Reels*6boxes

0805B/1206B/1206/1210/1204:
3000pcs*10Reels*6boxes*

3528:2000pcs*10Reels*6boxes
5050:1000pcs*8Reels*6boxes