

FYLS - 3528URC

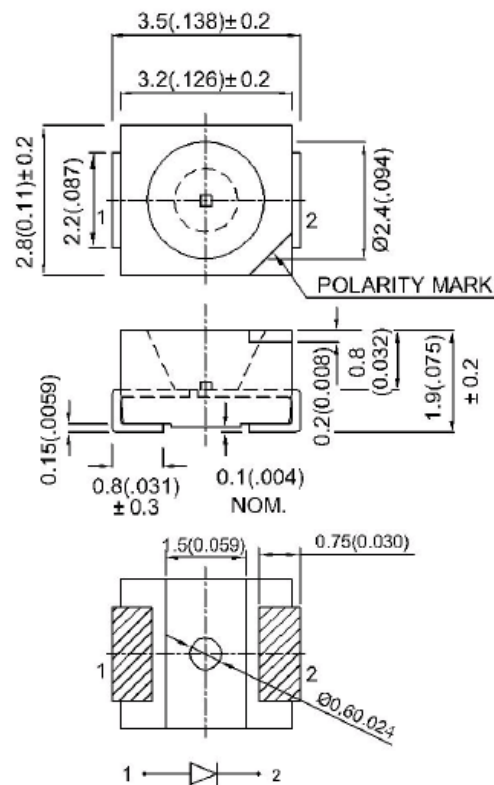
Features:

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

Description.

- The Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Red 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 ± 0.2 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	$2\theta_{1/2}$
FYLS-3528URC	Red(AlGaInP)	Water clear	400	550	120

Electrical/Optical Characteristics at Ta=25 °c

Symbol	Parameter	Device	min.	typ.	units	test conditions
λ_d	Dominate wavelength	Red	621	625	nm	IF=20mA
VF	Forward Voltage	Red	1.6	2.0	V	IF=20mA
IR	Reverse Current	Red		5	μ A	VR=5V

Absolute Maximum Ratings At= 25 °c

Parameter	White	Units
Power dissipation	75	mW
DC Forward Current	30	mA
Peak Forward Current(1)	185	mA
Reverse Voltage	5	V
Operating/storage Temperature	-40°C to +85°C	

Note:

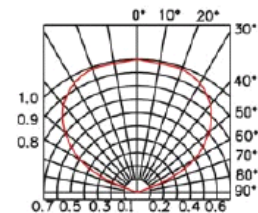
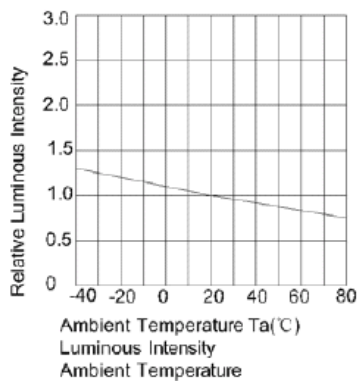
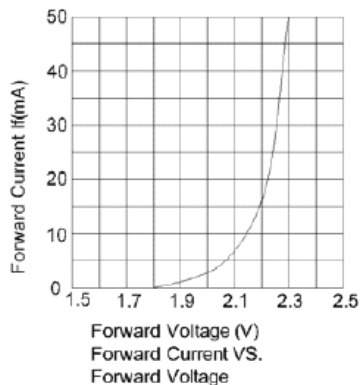
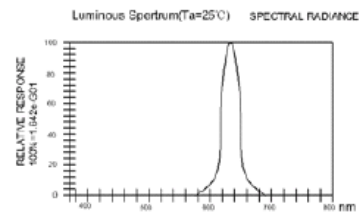
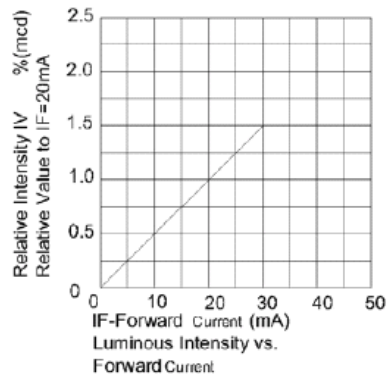
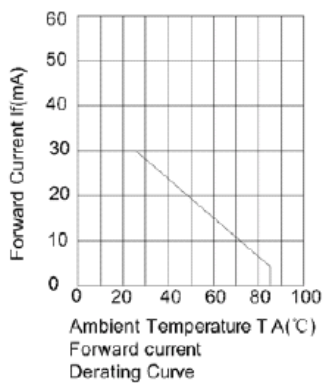
- 1/10 Duty Cycle, 0.1ms Pulse Width.

Reliability Test items And Conditions

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

Confidence level:90% LTPD:10%

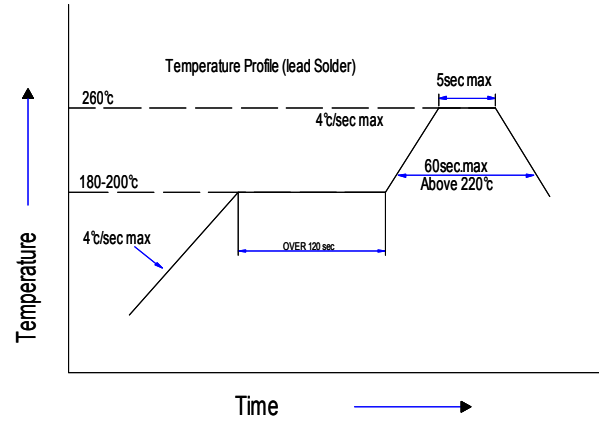
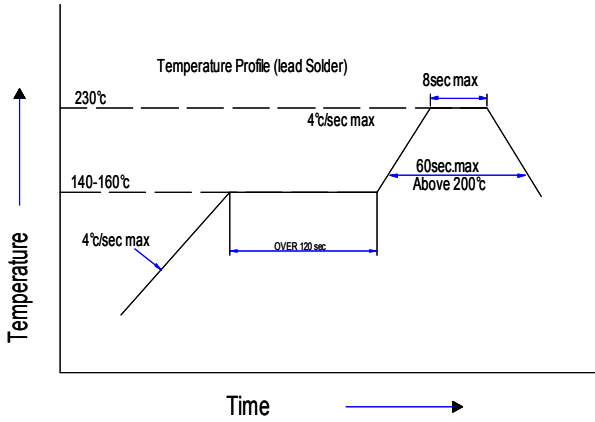
NO.	Items	test condition	test Hours/Cycles	sample Size	Ac/Rc
1	Reflow	Temp:240°C ± 5°C Min:5sec	6Min	22pcs	0/1
2	Temperature cycle	H: +100°C 15min.~5min L:-40°C ~ 15min	300 Cycles	22pcs	0/1
3	Thermal shock	H: +100°C 5min.~10sec. L:-10°C 5min	300 Cycles	22pcs	0/1
4	High Temperature Storage	temp:100°C	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



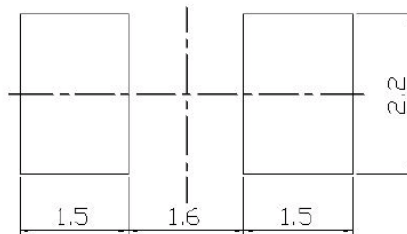
SMD

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

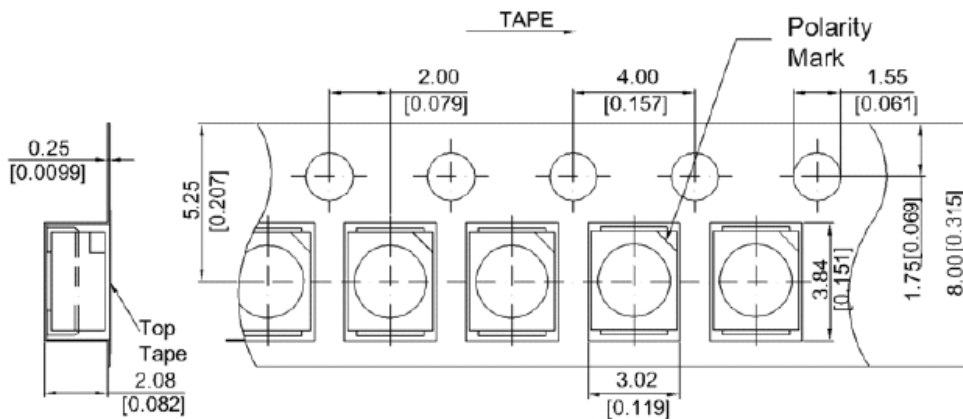
Process to normal temperature is required between first and second soldering process



Recommended Soldering Pattern(Units:mm)



Tape Specifications (Units : mm)



◆ Packing and Shipping Spec.

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