



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

**LA-170UW**

**WHITE**

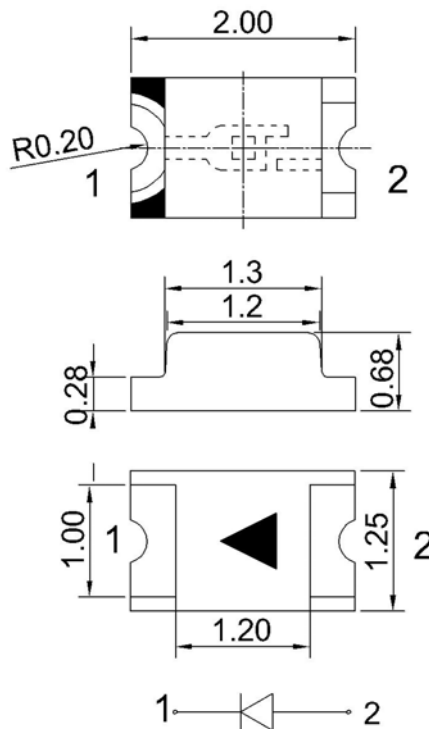
**Features**

- 2.0mmx1.25mm SMT LED, 0.68mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 3000PCS / REEL.

**Description**

The White source color devices are made with DH InGaN on GaAs substrate Light Emitting Diode.

**Package Dimensions**



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is  $\pm 0.2$ mm unless otherwise noted.
3. An epoxy meniscus may extend about 1.5mm down the leads.
4. Burr around bottom of epoxy may be 0.5mm max..

**Selection Guide**

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
LA-170UW	WHITE (InGaN)	WATER CLEAR	450	600	120°

Note:

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

**Electrical / Optical Characteristics at TA=25°C**

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V <sub>F</sub>	Forward Voltage	White	3.0	3.6	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	White		10	uA	V <sub>R</sub> = 5V
X	Chromaticity Coordinates	White	0.28			
Y			0.27			
C	Capacitance	White	100		pF	V <sub>F</sub> =0V;f=1MHz

**Absolute Maximum Ratings at TA=25°C**

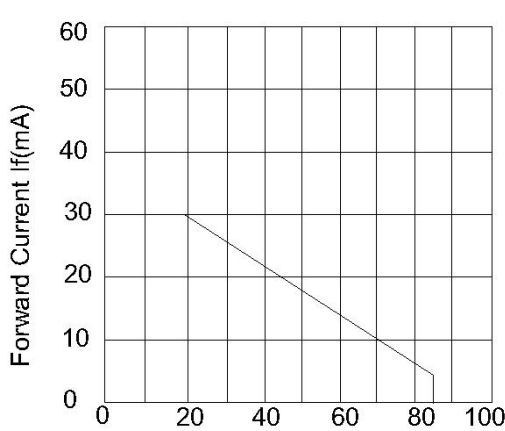
Parameter	White	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

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

White

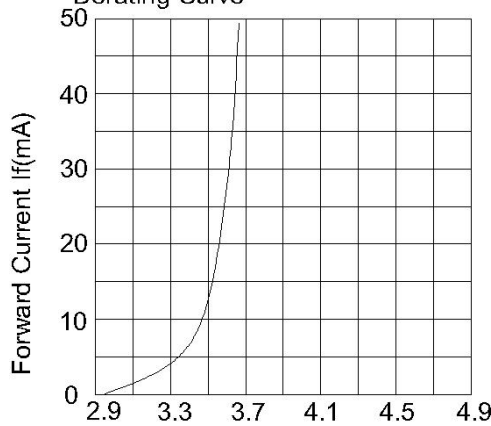
LA-170UW



Ambient Temperature T A (°C)

Forward current

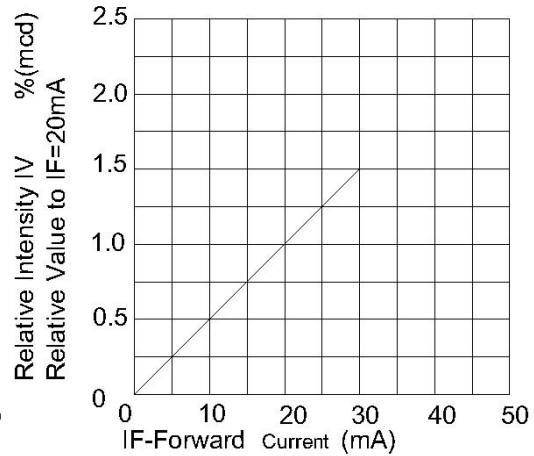
Derating Curve



Forward Voltage (V)

Forward Current VS.

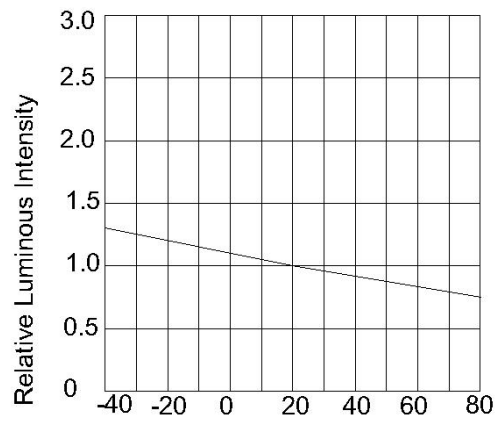
Forward Voltage



IF-Forward Current (mA)

Luminous Intensity vs.

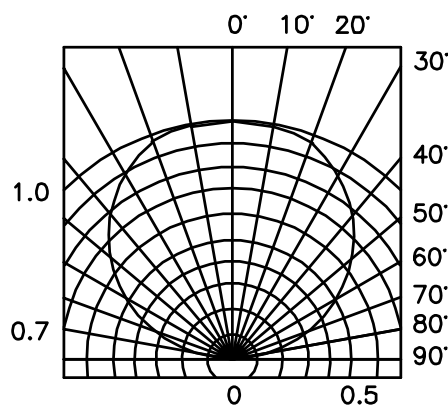
Forward Current



Ambient Temperature Ta (°C)

Luminous Intensity

Ambient Temperature

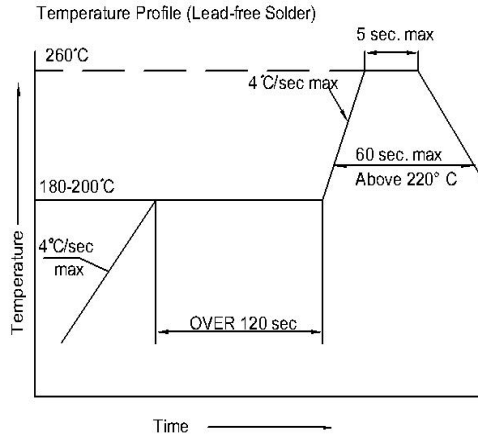
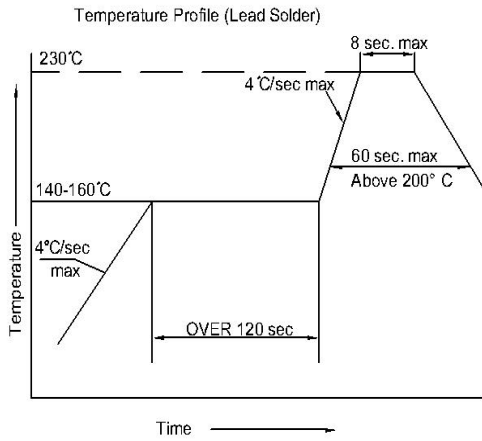


SPATIAL DISTRIBUTION

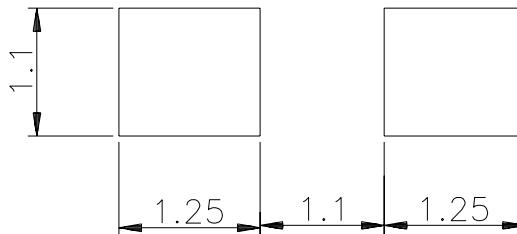
**LA-170UW**

**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)**

