

# SHENZHEN YUNAO ELECTRONICS CO., LTD. 1.6X0.8mm SMD CHIP LED LAMP

LA-190USR

RED

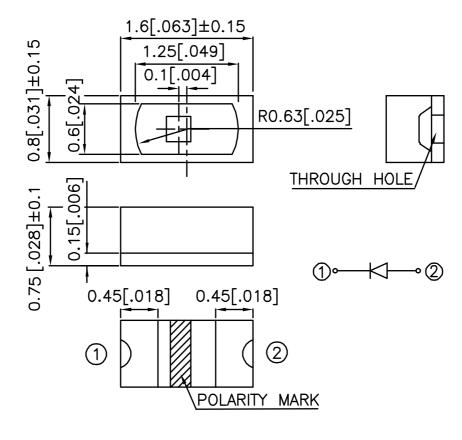
#### Features

- •1.6mmX0.8mm SMT LED, 0.75mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •WIDE VIEWING ANGLE.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- •PACKAGE: 2000PCS / REEL .
- RoHS COMPLIANT.

### Description

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

# Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.1(0.004")$  unless otherwise noted.

3.Specifications are subject to change without notice.

SPEC NO: LA-190USR APPROVED: ZE TIAN REV NO: V.8 CHECKED:ISAAC WU DATEMAR/19/2006 DRAWN:CHAOMING GONG



Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA	,	Viewing Angle			
			Min.	Тур.	<b>2</b> θ <b>1/2</b>			
LA-190USR	RED (GaAsP/GaP)	WATER CLEAR	80	150	120°			

Note: 1.  $\theta$ 1/2 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	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	630		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	620		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45		nm	IF=20mA
С	Capacitance	High Efficiency Red	15		pF	VF=0V;f=1MHz
Vf	Forward Voltage	High Efficiency Red	1.8	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red		10	uA	VR = 5V

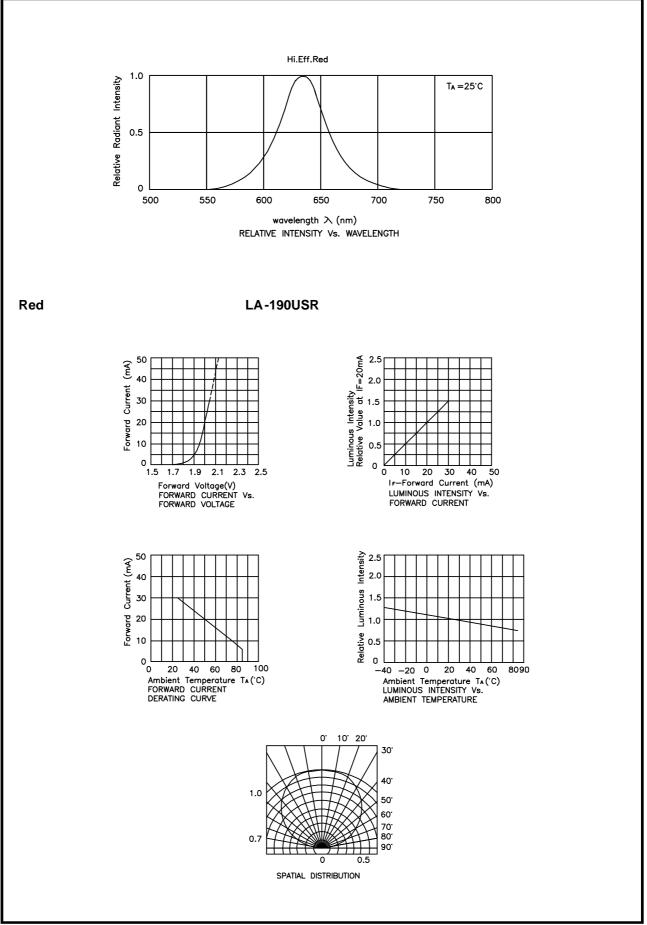
## Absolute Maximum Ratings at TA=25°C

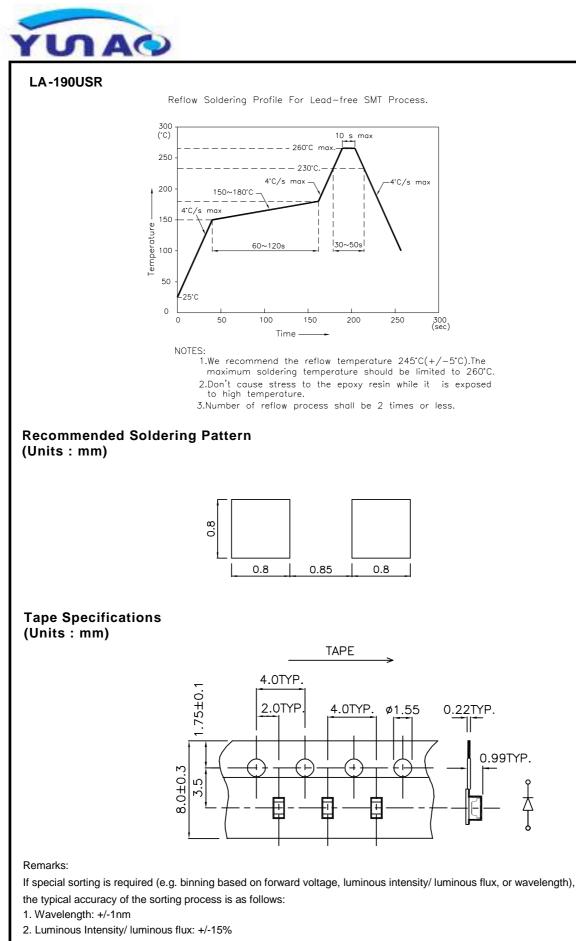
Parameter	High Efficiency Red	Units
Power dissipation	105	mW
DC Forward Current	30	mA
Peak Forward Current [1]	160	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	•

Note:

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







3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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