

### 1.8mm SOLID STATE LAMP

WP1060SRD

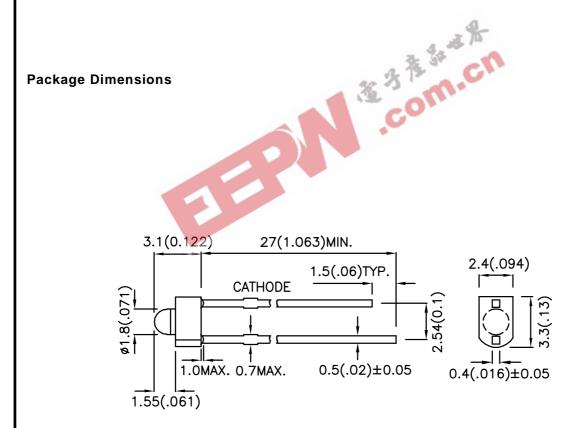
SUPER BRIGHT RED

#### **Features**

- •1.8mm DIAMETER SMALL SIZE LED LAMP.
- •ULTRA BRIGHTNESS IS AVAILABLE.
- •RELIABLE AND RUGGED.
- •VERSATILE MOUNTING ON P.C. BOARD OR PANEL.
- •AVAILABLE IN DIFFUSED LENS.
- •Rohs Compliant.

### **Description**

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red Light Emitting Diode.



#### Notes

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- Specifications are subject to change without notice.

SPEC NO: DSAF2117 REV NO: V.1 DATE: APR/11/2005
APPROVED: J. Lu CHECKED: Allen Liu DRAWN: W.J.ZHU

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## **Selection Guide**

Part No.	Dice	Lens Type	lv (m @ 20	,	Viewing Angle
			Min.	Тур.	201/2
WP1060SRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	70	200	70°

#### Note:

## Electrical / Optical Characteristics at T<sub>A</sub>=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660		nm	I==20mA
λD	Dominant Wavelength	Super Bright Red	640	4	nm	I==20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red	20	32	nm	IF=20mA
С	Capacitance	Super Bright Red	45	M	pF	VF=0V;f=1MHz
VF	Forward Voltage	Super Bright Red	1.85	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Red		10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units			
Power dissipation	ver dissipation 100				
DC Forward Current	30	mA			
Peak Forward Current [1]	155	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 3 Seconds				
Lead Solder Temperature [3]	260°C For 5 Seconds				

#### Notes

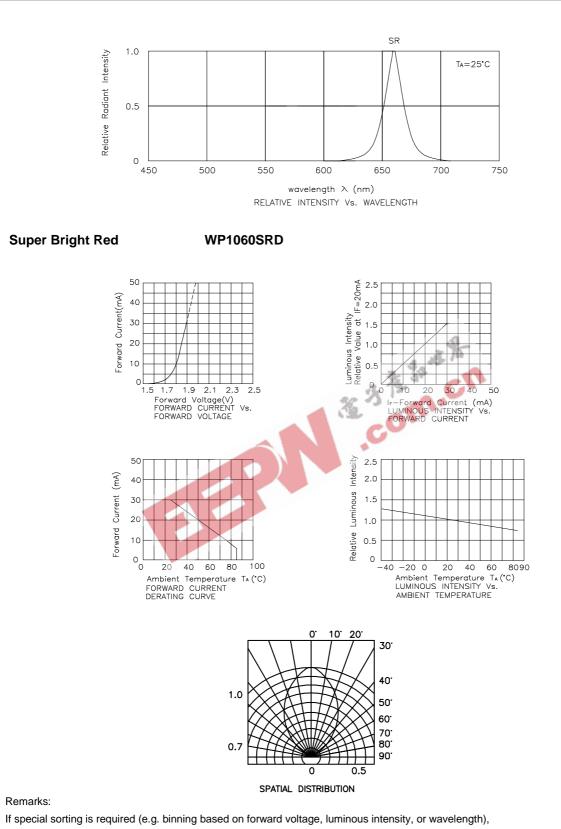
- 1. 1/10 Duty Cycle, 0.1ms Pulse Width.
- 2. 2mm below package base.
- 3. 5mm below package base.

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<sup>1.</sup>  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

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the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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