

### T-1 (3mm) SOLID STATE LAMP

PRELIMINARY SPEC

Part Number: WP908A8ID

High Efficiency Red

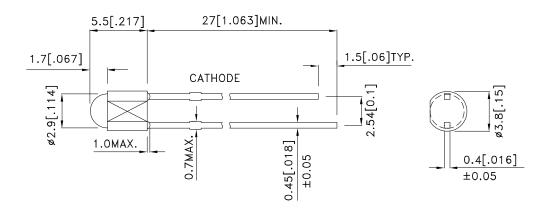
#### **Features**

- •Low power consumption.
- ●Popular T-1 diameter package.
- General purpose leads.
- •Reliable and rugged.
- ●Long life-solid state reliability.
- •Available on tape and 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**



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





SPEC NO: DSAJ0588 **REV NO: V.1** DATE: JAN/07/2009 PAGE: 1 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1101023357

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#### **Selection Guide**

Part No.	Dice	Iv (mcd) [2]   Dice   Lens Type   @ 10mA		,	Viewing Angle [1]
		21	Min.	Тур.	201/2
WP908A8ID	High Efficiency Red (GaAsP/GaP)	RED DIFFUSED	5	20	80°

#### Notes:

- 1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. Luminous intensity/ luminous Flux: +/-15%.

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

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red	627		nm	IF=20mA
λD [1]	Dominant Wavelength	High Efficiency Red	625		nm	I==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 [2]	Forward Voltage	High Efficiency Red	2	2.5	V	IF=20mA
lr	Reverse Current	High Efficiency Red		10	uA	VR = 5V

- Notes: 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

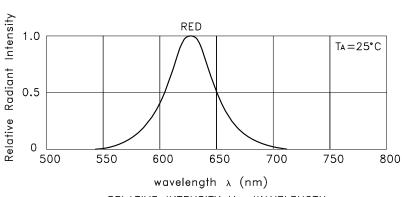
### Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	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.

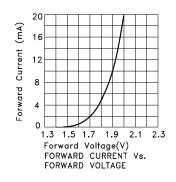
SPEC NO: DSAJ0588 **REV NO: V.1** DATE: JAN/07/2009 PAGE: 2 OF 4 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: Y.F.Lu ERP: 1101023357

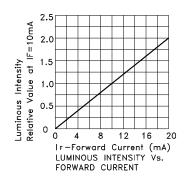
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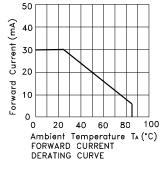


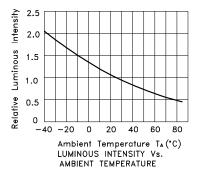
RELATIVE INTENSITY Vs. WAVELENGTH

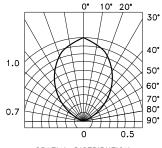
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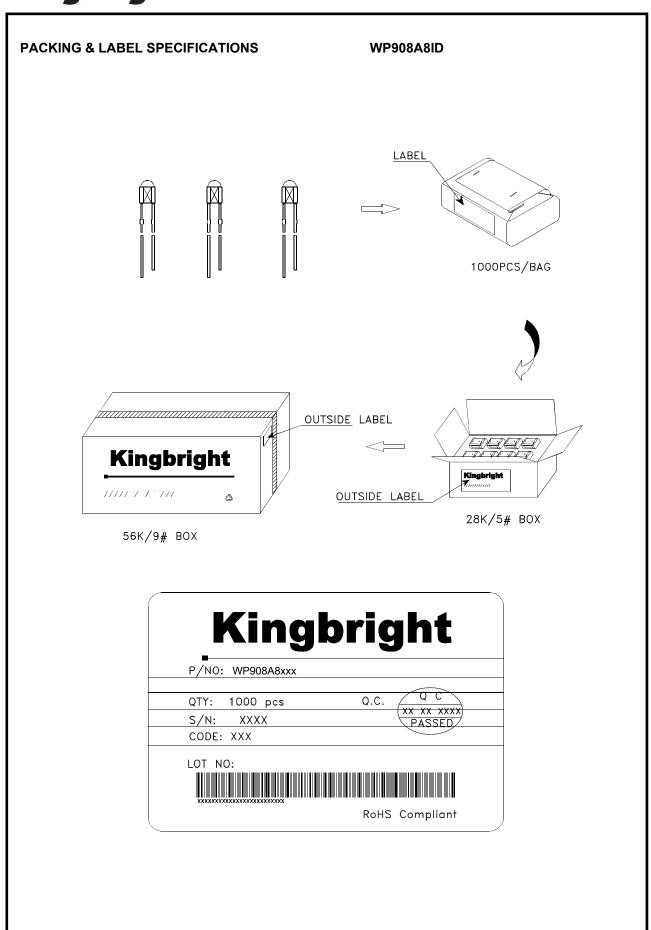


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 SPEC NO: DSAJ0588
 REV NO: V.1
 DATE: JAN/07/2009
 PAGE: 3 OF 4

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