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4mm SOLID STATE LAMP

WP44ID

HIGH EFFICIENCY RED

Features

Description

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

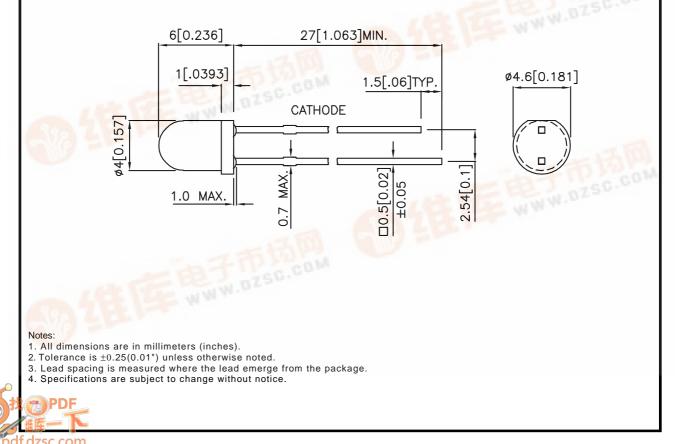
Package Dimensions

•RoHS COMPLIANT.

•LOW POWER CONSUMPTION.

•POPULAR 4mm DIAMETER. •RELIABLE AND RUGGED.

•VERSATILE MOUNTING ON P.C. BOARD OR PANEL.



SPEC NO: DSAF2368

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Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10mA		Viewing Angle
i alt tiol			Min. Typ.		201/2
WP44ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	5	15	80°

Note: 1. θ 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	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		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	2.0	2.5	V	IF=20mA
lr	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		
Lead Solder Temperature [2]	260°C For 3 Seconds		
Lead Solder Temperature [3]	260°C For 5 Seconds		

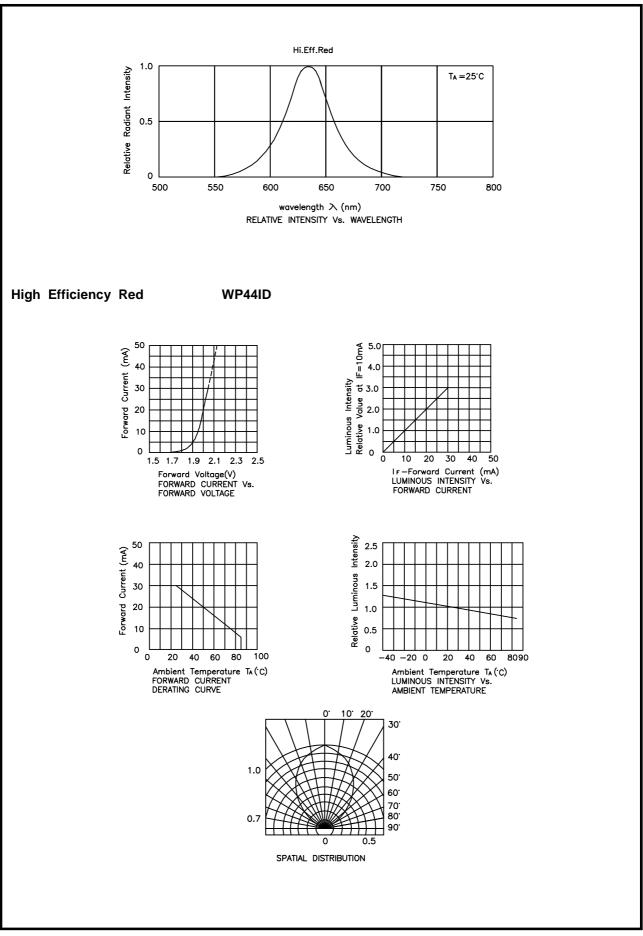
Notes:

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

2. 2mm below package base.

3. 5mm below package base.

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