

2mm FLAT TOP LED LAMP

WP13ID

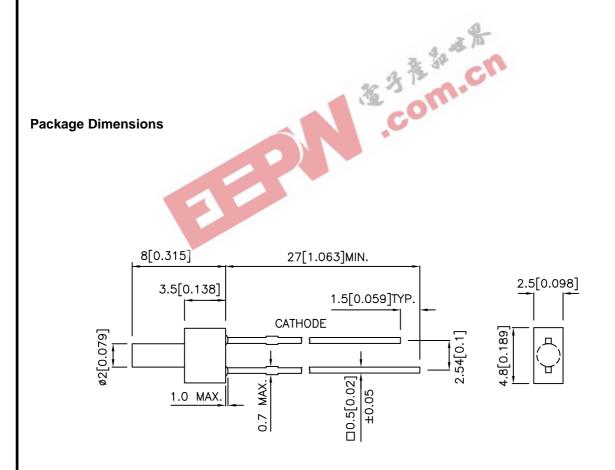
HIGH EFFICIENCY RED

Features

- •MOUNTS FLUSH WITH PANEL.
- •LOW POWER CONSUMPTION.
- •SUITABLE FOR AUDIO PANEL INDICATOR.
- •FITS 2mm HOLE IN PANEL UP TO 3.5mm (.138").
- •LONG LIFE SOLID STATE RELIABILITY.
- •Rohs Compliant.

Description

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



Notes

- 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.
- 4. Specifications are subject to change without notice.

SPEC NO: DSAF2530 APPROVED: J. Lu REV NO: V.1 CHECKED: Allen Liu DATE: APR/18/2005 DRAWN: W.J.ZHU PAGE: 1 OF 3 ERP:1101009211

Kingbright

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	2 θ 1/2
WP13ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	5	10	70°

Note:

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	. 34	nm	IF=20mA
С	Capacitance	High Efficiency Red	15	3	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	10	uA	VR= 5V

Absolute Maximum Ratings at TA=25°C

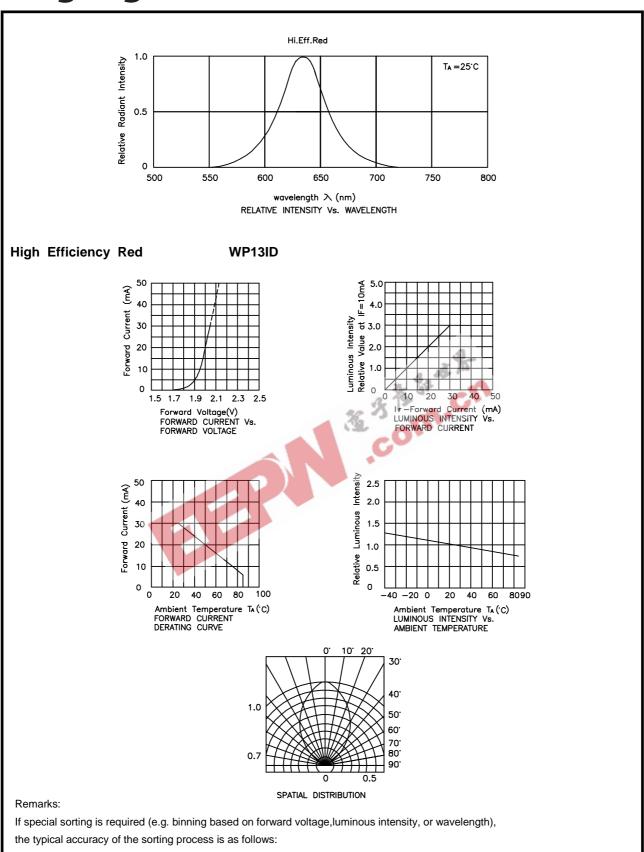
Parameter	High Efficiency Red				
Power dissipation	105	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	160	mA			
Reverse Voltage	5	V			
Operating / Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	ad Solder Temperature [2] 260°C For 3 Seconds				
Lead Solder Temperature [3] 260°C For 5 Seconds					

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

SPEC NO: DSAF2530 **REV NO: V.1** DATE: APR/18/2005 PAGE: 2 OF 3 APPROVED: J. Lu **CHECKED: Allen Liu** DRAWN: W.J.ZHU ERP:1101009211

^{1.} θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Kingbright



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

Note: Accuracy may depend on the sorting parameters.

 SPEC NO: DSAF2530
 REV NO: V.1
 DATE: APR/18/2005
 PAGE: 3 OF 3

 APPROVED: J. Lu
 CHECKED: Allen Liu
 DRAWN: W.J.ZHU
 ERP:1101009211