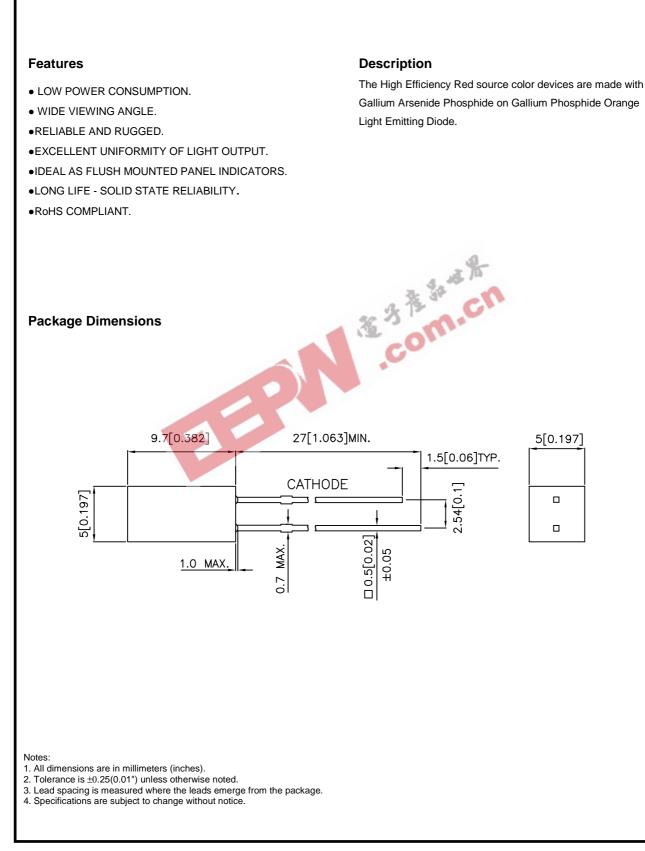
# Kingbright

### 5x5mm SQUARE TOP LED LAMP

WP1553IDT

HIGH EFFICIENCY RED



SPEC NO:DSAF2624 APPROVED: J. Lu REV NO :V1 CHECKED: Allen Liu DATE: APR/21/2005 DRAWN: S.H.CHEN PAGE: 1 OF 3 ERP:1101009224

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Selection G	uide				
Part No.	Dice	Lens Type	lv (mcd) @ 10mA		Viewing Angle
			Min.	Тур.	<b>2</b> θ <b>1/2</b>
WP1553IDT	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3	8	110 <b>°</b>

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	627		nm	IF=20mA
λD	Dominant Wavelength	High Efficiency Red	625		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	High Efficiency Red	45	k 34	nm	IF=20mA
С	Capacitance	High Efficiency Red	15	2	pF	VF=0V;f=1MHz
VF	Forward Voltage	High Efficiency Red	2.0	2.5	V	IF=20mA
IR	Reverse Current	High Efficiency Red	C.	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	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		

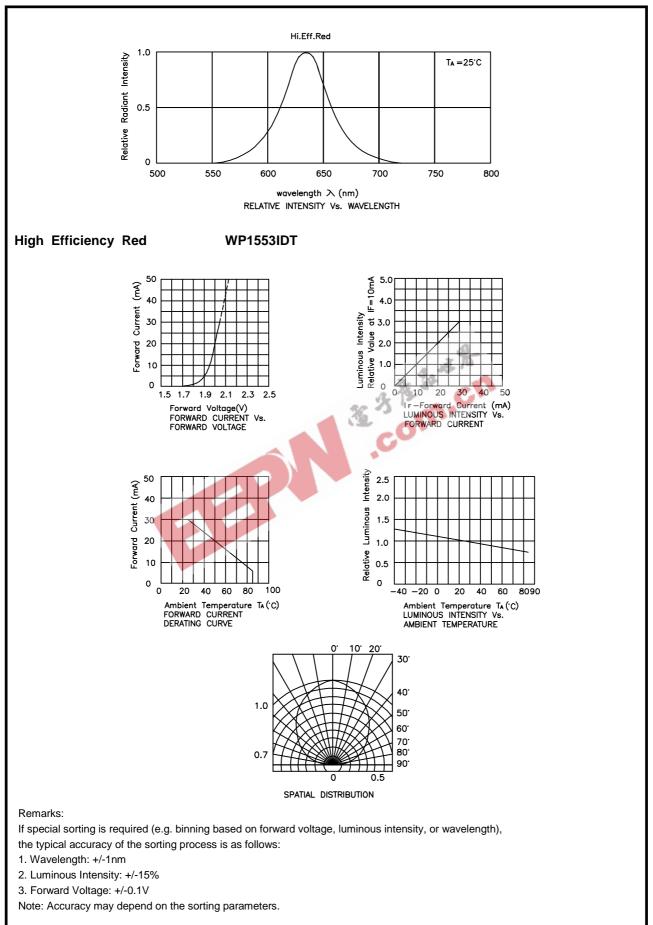
Notes:

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

2. 2mm below package base.

3. 5mm below package base.

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