Kingbright

5x5mm SQUARE TOP LED LAMP

WP1553HDT

BRIGHT RED

Description **Features** The Bright Red source color devices are made • LOW POWER CONSUMPTION. with Gallium Phosphide Red Light Emitting Diode. • WIDE VIEWING ANGLE. •RELIABLE AND RUGGED. •EXCELLENT UNIFORMITY OF LIGHT OUTPUT. •IDEAL AS FLUSH MOUNTED PANEL INDICATORS. •LONG LIFE - SOLID STATE RELIABILITY. •RoHS COMPLIANT. **Package Dimensions** 9.7[0.382] 27[1.063]MIN. 5[0.197] 1.5[0.06]TYP. CATHODE 2.54[0.1] 5[0.197] 1 l ۲. □ 0.5[0.02]⁻ ±0.05 MAX. 1.0 MAX. 0.7 Notes: 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.

4. Specifications are subject to change without notice.

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Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) @ 10 mA		Viewing Angle
			Min.	Тур.	2 01/2
WP1553HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.4	1	110°

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 T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red	700		nm	IF=20mA
λD	Dominant Wavelength	Bright Red	660		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Bright Red	45		nm	IF=20mA
С	Capacitance	Bright Red	40		pF	VF=0V;f=1MHz
Vf	Forward Voltage	Bright Red	2.25	2.5	V	IF=20mA
IR	Reverse Current	Bright Red		10	uA	VR = 5V

Absolute Maximum Ratings at TA=25°C

Parameter	Bright Red	Units		
Power dissipation	120	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	130	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			

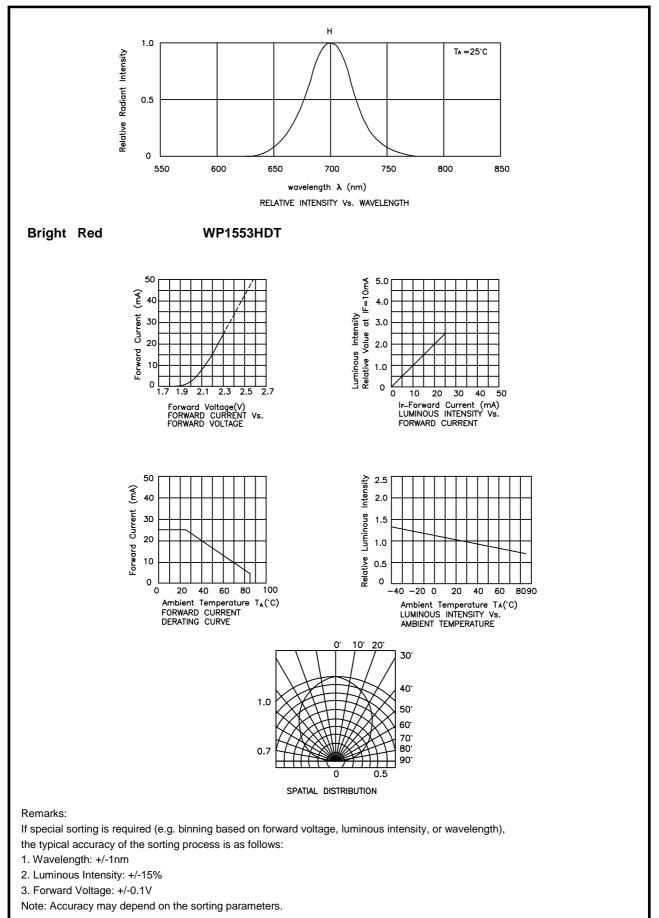
Notes:

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

2. 2mm below package base.

3. 5mm below package base.

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