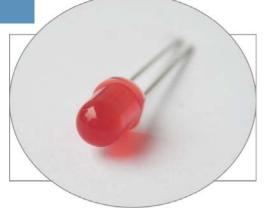
5mm (T1 ¾) Package Discrete LED HE RED, 5V

5HD5V-X

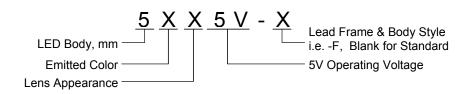
- ♦ Industry Standard 5mm (T1 ¾) Package
- **♦** RoHS Compliant
- Diffused Lens
- ◆ Available in Flange (F) and Standard (Blank) Lead Frame styles
- ♦ 5V Operating Voltage
- Ideal for Status Indication and Display



Bivar 5mm T1 ¾ Package 5V LED is ideal for those applications equipped with regular 5V power supplies such as servers and computer peripherals. Bivar offers diffused LED lens for uniform light output. The Flanged LED is ideal for Panel Mount Clip & Ring assemblies and the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
5HD5V-F	GaAsP/GaP	HE RED	625nm	Red Diffused	40°	
5HD5V	Gansr/Gar	HE KED	0231111	Red Diffused	45°	

Part Number Designation





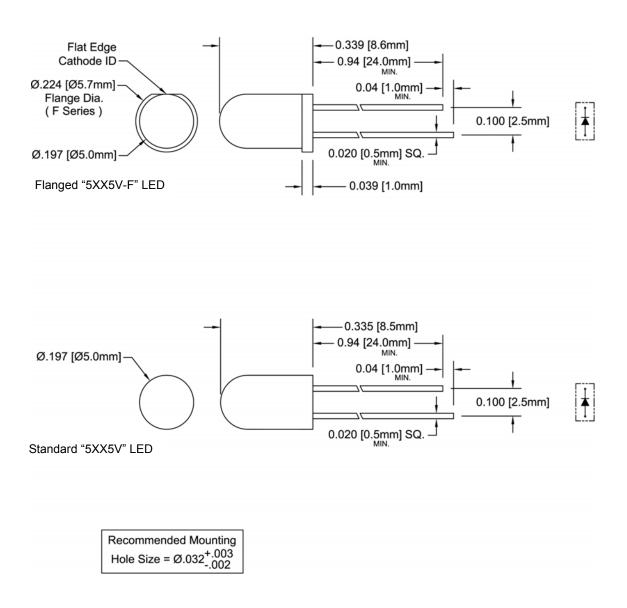




5mm (T1 ¾) Package Discrete LED HE RED, 5V



Outline Dimensions



Outline Drawings Notes:

1. All dimensions are in inches [millimeters].

2. Standard tolerance: ±0.010" unless otherwise noted.

3. Tolerance of overall epoxy outline: ±0.020" unless otherwise noted.

4. Epoxy meniscus may extend to 0.060" max.

5mm (T1 ¾) Package Discrete LED HE RED, 5V



Absolute Maximum Ratings

 $T_A = 25^{\circ}C$ unless otherwise noted

Power Dissipation	/ mW
Forward Current (DC)	8 mA
Peak Forward Current ¹	12 mA
Reverse Voltage	5 V
Operating Temperature Range	-25 ~ +85°C
Storage Temperature Range	-30 ~ +100°C
Lead Soldering Temperature (3 mm from the base of the epoxy bulb) 2	260°C

Notes: 1. 10% Duty Cycle, Pulse Width ≤ 0.1 msec.

2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25^{\circ}C$ & Vf = $5^{\circ}V$ unless otherwise noted

Part Number		orwai Itage	-	F	comm orwai rent (rd	Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)	
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
5HD5V-F	, ,	5.0	,	,	,	100	/	/	/	1	30	/	40	
5HD5V	1	/	3.0 7 7 7 7 10	100	1	1	/	/	25	/	45			

Notes: 1. Tolerance of forward voltage: ±0.05V.

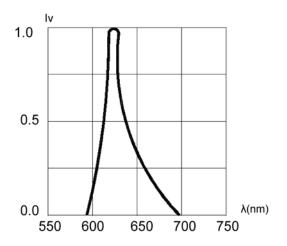
2. Tolerance of dominant wavelength: ±1.0nm.

5mm (T1 ¾) Package Discrete LED HE RED, 5V



Typical Electrical / Optical Characteristics

 $T_A = 25$ °C unless otherwise noted



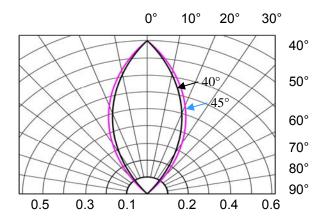


Fig. 1 Relative Luminous Intensity vs. Wavelength

Fig. 2 Directivity Radiation Diagram

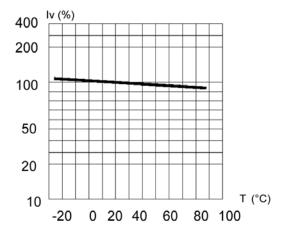
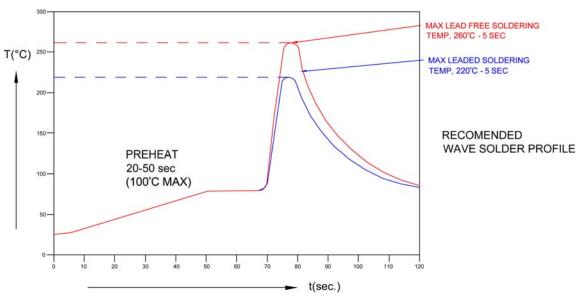


Fig. 3 Relative Luminous Intensity (%) vs. Temperature

5mm (T1 ¾) Package Discrete LED HE RED, 5V

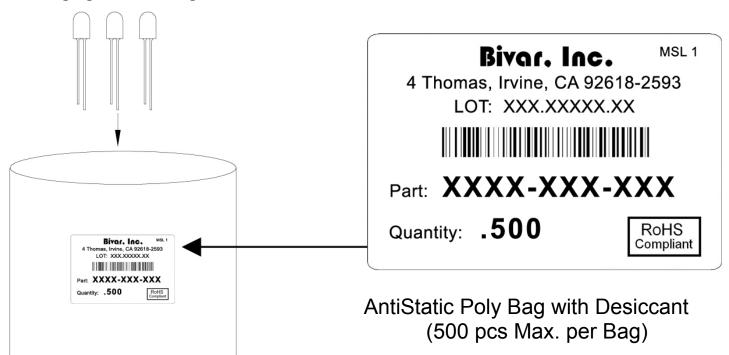


Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile					
Preheat Temperature: 100°C Max.	Peak Temperature: 260°C Max.				
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217°C: 5 Seconds Max.				
Note: Turn off top heater at preheat to prevent the lamp body directly exposed to the heat source.					

Packaging and Labeling Plan



Bivar reserves the right to make changes at any time without notice