3mm (T1) Package Discrete LED RED, 5V



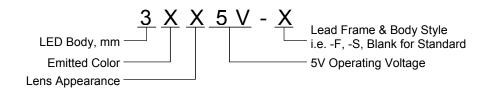
3RD5V-<mark>X</mark>

- Industry Standard 3mm (T1) Package
- RoHS Compliant
- Diffused Lens
- Available in Flange (F), Standard (Blank), and Shouldered (S) Lead Frame styles
- 5V Operating Voltage
- Ideal for Status Indication and Display

Bivar 3mm T1 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, the Standard Lead frame LED is ideal for vertical spacer assemblies without lead bends, and the Shouldered Lead frame LED has a built in strain relief feature which is ideal for Right Angle Holder assemblies that require lead bends.

Part Number	Material	Emitted Color	Peak. Wavelength λρ(nm) TYP.	Lens Appearance	Viewing Angle		
3RD5V-F				Red Diffused	35°		
3RD5V	GaP/GaP	RED	700nm	Red Diffused	40°		
3RD5V-S				Red Diffused	40°		

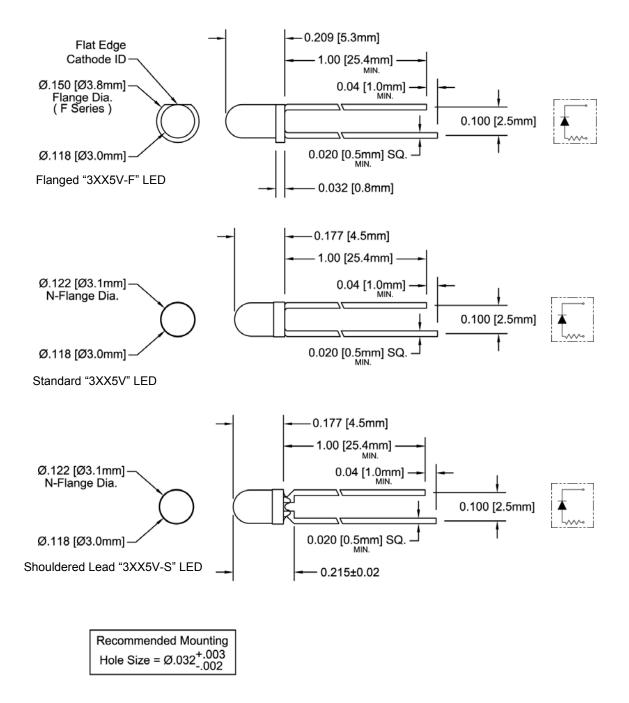
Part Number Designation







Outline Dimensions



- Outline Drawings Notes: 1. All dimensions are in inches [millimeters].
- Standard tolerance: ±0.010° unless otherwise noted.
 Tolerance of overall epoxy outline: ±0.020° unless otherwise noted.
 Epoxy meniscus may extend to 0.060° max.



Absolute Maximum Ratings

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

/ mW
8 mA
12 mA
5 V
-25 ~ +85°C
-30 ~ +100°C
260°C

Notes: 1. 10% Duty Cycle, Pulse Width \leq 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

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

Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ¹ / ₂ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3RD5V-F	/	/	5.0	5.0 /	/	/	100	/	/	/	/	2	/	35
3RD5V								/	/	/	/	2	/	40
3RD5V-S								/	/	/	/	2	/	40

Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



Typical Electrical / Optical Characteristics

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

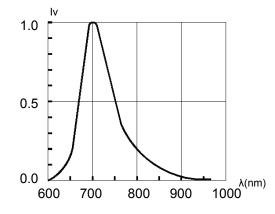


Fig. 1 Relative Luminous Intensity vs. Wavelength

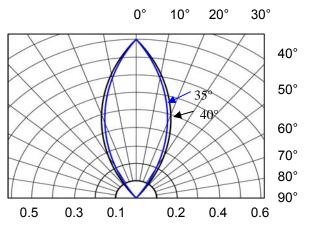


Fig. 2 Directivity Radiation Diagram

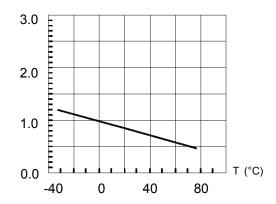
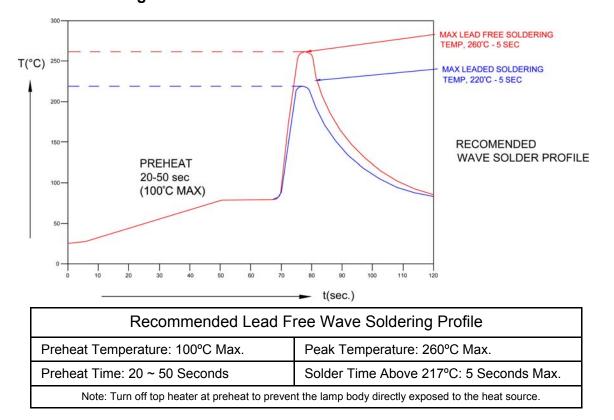


Fig. 3 Relative Luminous Intensity vs. Temperature



Recommended Soldering Conditions



Packaging and Labeling Plan

