5mm (T1 ³⁄₄) Package Discrete LED BLUE, 5V



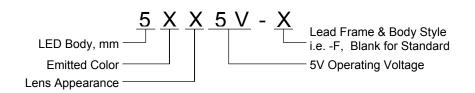
5BWD5V-X

- Industry Standard 5mm (T1 ³/₄) 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 ³⁄₄ 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	
5BWD5V-F	GaN/SiC	BLUE	430nm	Blue Diffused	40°	
5BWD5V	Gain/SiC	BLUE	4301111	Blue Diffused	45°	

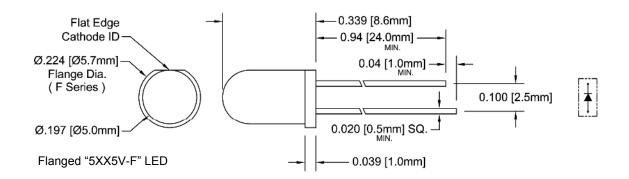
Part Number Designation

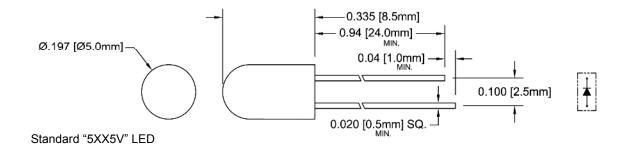






Outline Dimensions





Recommended Mounting
Hole Size = Ø.032 ^{+.003}

 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.



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 ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
5BWD5V-F	,		5.0		,	,	100	/	/	/	/	15	/	40
5BWD5V	I				/	100	/	/	/	/	15	/	45	

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

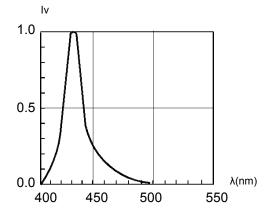
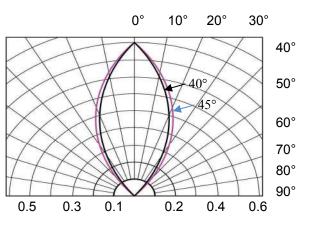
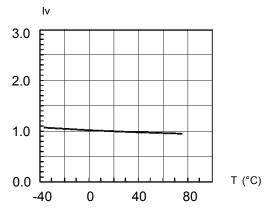


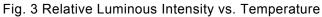
Fig. 1 Relative Luminous Intensity vs. Wavelength



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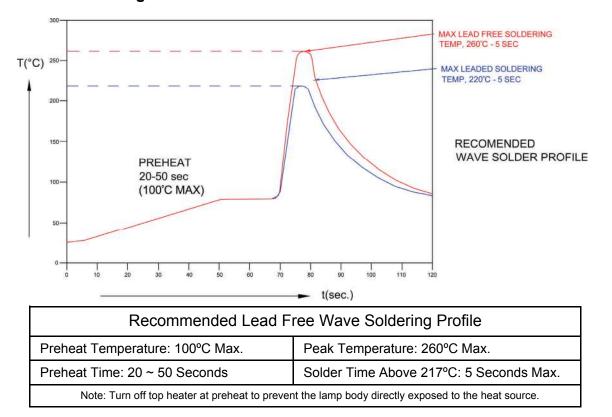








#### **Recommended Soldering Conditions**



#### Packaging and Labeling Plan

