5mm (T1 ³⁄₄) Package Discrete LED RED, Low Current



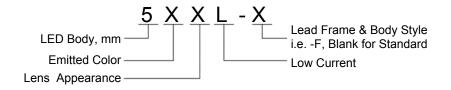
5RDL-<mark>X</mark>

- Industry Standard 5mm (T1 ³/₄) Package
- RoHS Compliant
- Diffused Lens
- Available in Flange (F) and Standard (Blank) Lead Frame styles
- 2 mA Low Operating Current
- Ideal for Status Indication and Display

Bivar 5mm T1 ³/₄ Package 2 mA Low Current LED is special binned at 2 mA and is ideal for those applications where lower power budget is required such as solar panel or battery-powered portable devices. 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		
5RDL-F	GaP/GaP	RED	700	Red Diffused	40°		
5RDL	Gar/Gar	RED	700	Red Diffused	45°		

Part Number Designation

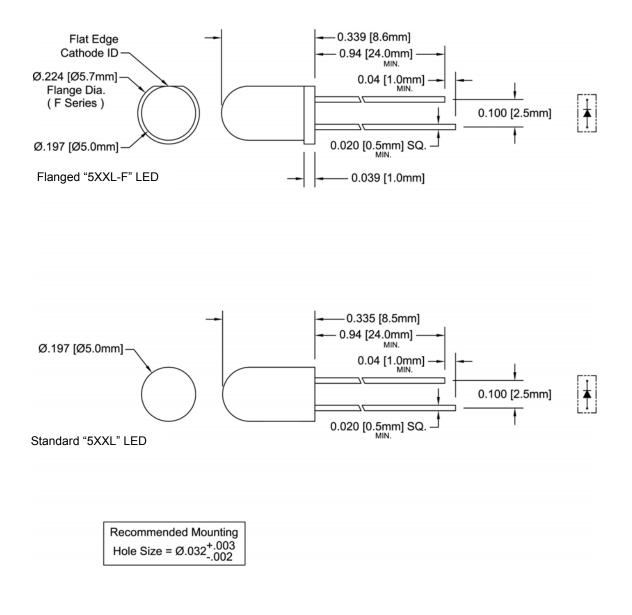






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Outline Dimensions



 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.



Absolute Maximum Ratings

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

10 mW
7 mA
/ 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

 $T_A = 25^{\circ}C \& I_F = 2 \text{ mA}$ 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
5RDL-F	/	2.1 2.6	26	,	2	/	100	/	/	/	0.2	0.5	/	40
5RDL			2.0 /	/				/	/	/	0.2	0.5	/	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

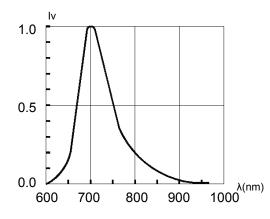


Fig. 1 Relative Luminous Intensity vs. Wavelength

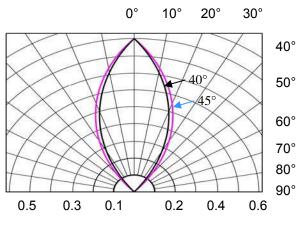


Fig. 2 Directivity Radiation Diagram

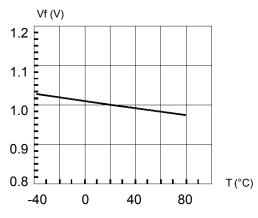


Fig. 3 Forward Voltage vs. Temperature

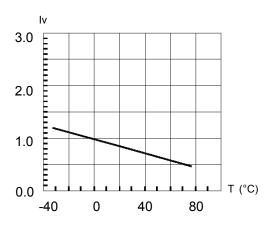
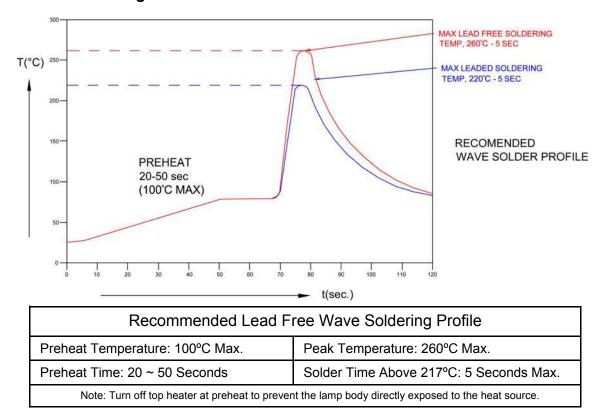


Fig. 4 Relative Luminous Intensity vs. Temperature



Recommended Soldering Conditions



Packaging and Labeling Plan

