1.8mm Package Discrete LED RED



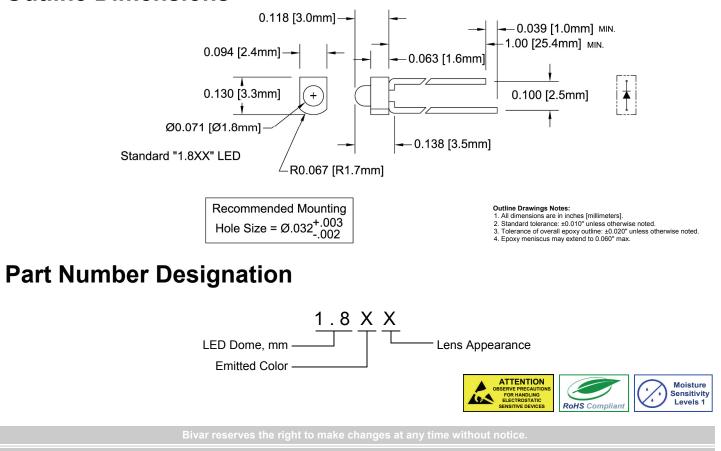
1.8H<mark>X</mark>

- 1.8mm Small Footprint Package
- RoHS Compliant
- Water Clear (C) and Diffused (D) Lenses
- Available in a Shouldered Lead Frame style
- Ideal for Status Indication and Display
- Recommended for Bivar H-381C and H-485C holder assemblies

Bivar 1.8mm Package LED may be used in almost any Application where smaller indication lights are required. Bivar offers water clear LED lens for maximum light output and diffused LED lens for uniform light output, 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 λp(nm) TYP.	Lens Appearance	Viewing Angle	
1.8HC	GaAsP/GaP	RED	625nm	Water Clear	35°	
1.8HD	Gansr/Gar	RED	0231111	Red Diffused	50°	

Outline Dimensions



Bivar, Inc. — 4 Thomas, Irvine, California 92618, U.S.A. Phone: (949) 951-8808 Fax: (949) 951-3974 E-mail: bivar@bivar.com Web: www.bivar.com



Absolute Maximum Ratings

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

Power Dissipation	80 mW
Forward Current (DC)	30 mA
Peak Forward Current ¹	150 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 \leq 0.1 msec. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

 $T_A = 25^{\circ}C \& I_F = 20 \text{ mA}$ unless otherwise noted

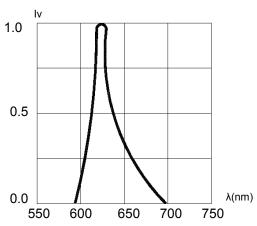
Part Number	Forward Voltage (V) ¹		Recommend Forward Current (mA)		Reverse Current (µA)	Dominant Wavelength (nm) ²		Luminous Intensity Iv (mcd)			Viewing Angle 2 O ½ (deg)			
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
1.8HC	,	/ 20	.0 2.8	/	20	/	100	/	/	/	/	30	/	35
1.8HD	/ 2	2.0						/	/	/	/	20	/	50

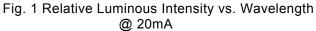
Notes: 1. Tolerance of forward voltage : ±0.05V. 2. Tolerance of dominant wavelength : ±1.0nm.



Typical Electrical / Optical Characteristics

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





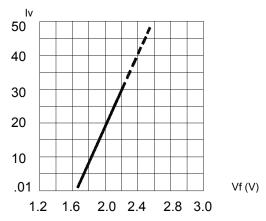
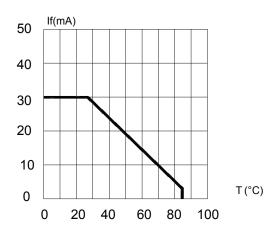
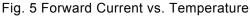
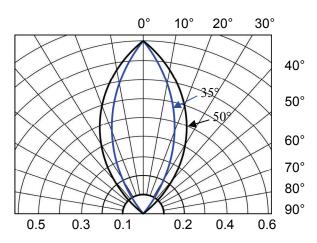


Fig. 3 Relative Intensity (10mA) vs. Forward Voltage









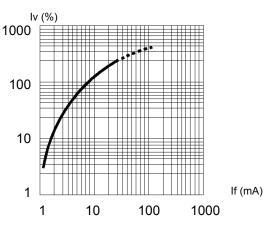
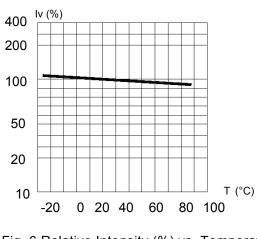
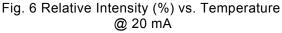


Fig. 4 Relative Luminous Intensity (%) vs. Forward Current

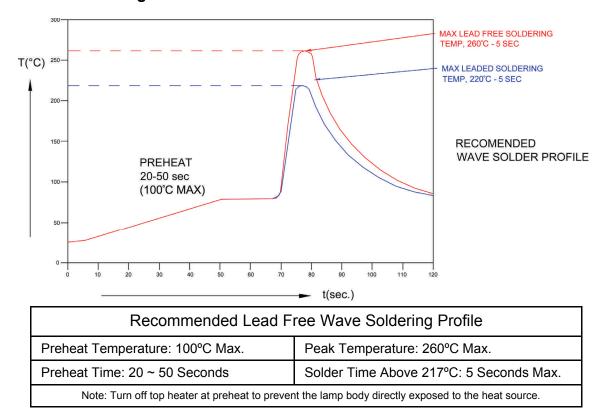




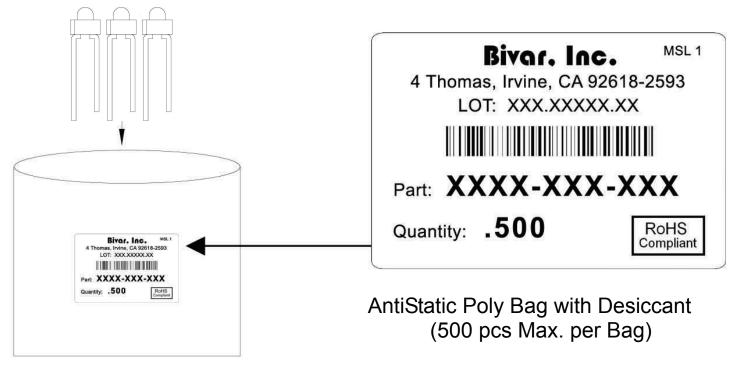
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Recommended Soldering Conditions



Packaging and Labeling Plan



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