1.8mm Package Discrete LED YELLOW, Low Current



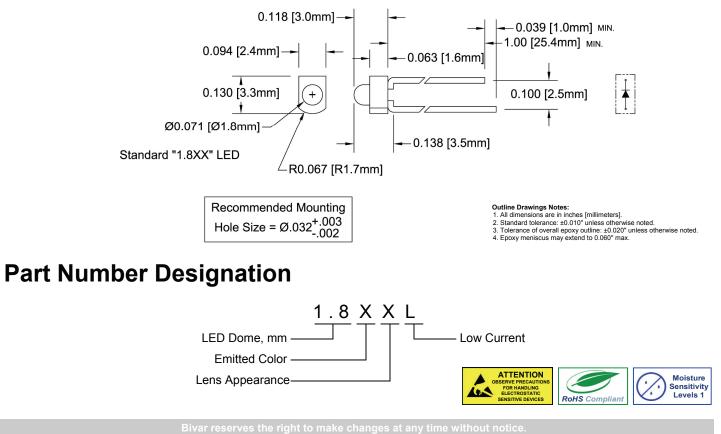
1.8Y<mark>X</mark>L

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

Bivar 1.8mm Package 2 mA Low Current LED is special binned at 2 mA and is ideal for those applications where lower power budget and smaller indication lighting are required such as solar panel or battery-powered portable devices. 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.

1.8YCI Water Clear 35°	Part Number	Material	Emitted Color	Peak. Wavelength λp(nm) TYP.	Lens Appearance	Viewing Angle	
	1.8YCL		XELLOW/	500pm	Water Clear	35°	
GaAsP/GaP YELLOW 590nm 1.8YDL Yellow Diffused 50°	1.8YDL	GaASP/GaP	TELLOW	5901111	Yellow Diffused	50°	

Outline Dimensions



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Absolute Maximum Ratings

 T_A = 25°C unless otherwise noted

Power Dissipation	10 mW
Forward Current (DC)	7 mA
Peak Forward Current ¹	/ 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

 $T_A = 25^{\circ}C \& I_F = 2 \text{ mA}$ unless otherwise noted

Part Number		orwa Itage	d Eorward		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
1.8YCL	,	2.1	2.6	/	2	/	100	/	/	/	/	2.5	/	35
1.8YDL	/	2.0	2.6					/	/	/	/	1	/	50

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

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



Typical Electrical / Optical Characteristics

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

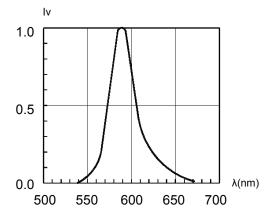


Fig. 1 Relative Luminous Intensity vs. Wavelength

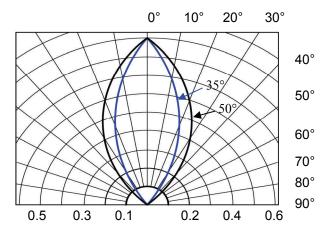


Fig. 2 Directivity Radiation Diagram

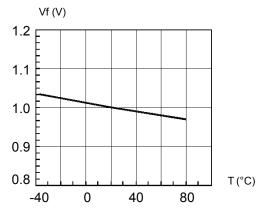


Fig. 3 Forward Voltage vs. Temperature

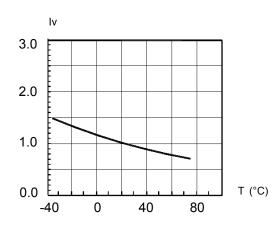
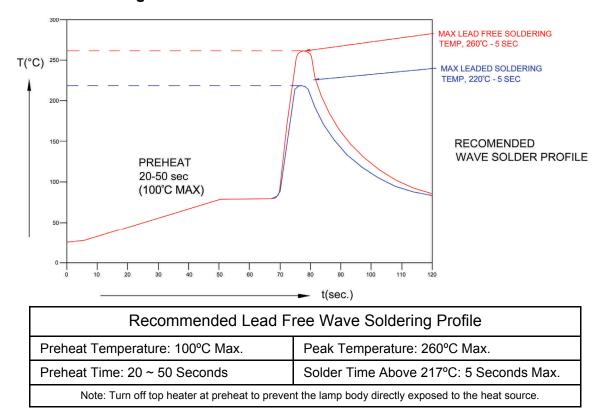


Fig. 4 Relative Luminous Intensity vs. Temperature

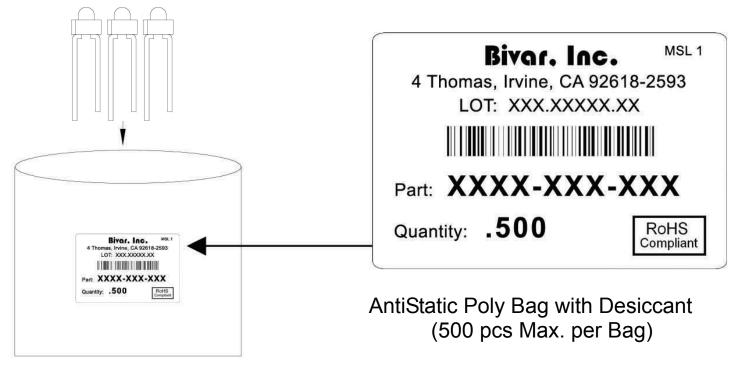
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Recommended Soldering Conditions



Packaging and Labeling Plan



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