

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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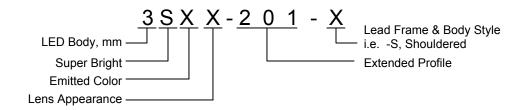
- ♦ Industry Standard 3mm (T1) Package
- **♦** RoHS Compliant
- ♦ Water Clear (C) and Diffused (D) Lenses
- ♦ Available in a Shouldered (S) Lead Frame Style
- ♦ Up to 50 mcd Luminous Intensity at 20 mA
- Ideal for Status Indication and Display



Bivar 3mm T1 Package Extended Profile LED may be used in higher ambient lighting applications and provides additional protrusion for those applications with thicker face plates. Bivar offers water clear LED lens for maximum light output and diffused LED lens for uniform light output. The Shouldered Lead frame LED is ideal for vertical spacer assemblies without lead bends and also 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	
3SGC-201-S	GaP/GaP	GREEN	568nm	Water Clear	20°	
3SGD-201-S	Gar/Gar	GREEN	5001111	Green Diffused	35°	

Part Number Designation



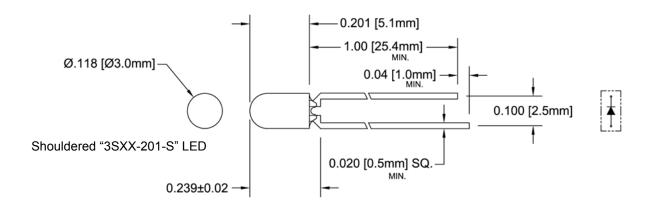








Outline Dimensions



Recommended Mounting Hole Size = $\emptyset.032^{+.003}_{-.002}$

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°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 ≤ 0.1 msec.

Electrical / Optical Characteristics

 $T_A = 25$ °C & $I_F = 20$ mA unless otherwise noted

Part Number		orwa Itage	- 4	F	comm forwai rrent (rd	Reverse Current (µA)	Dominant		Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)	
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3SGC-201-S	/ 2.1 2.8	2.0	,	20	/	100	/	1	/	1	50	/	20	
3SGD-201-S		2.0	/				/	1	/	1	30	/	35	

Notes: 1. Tolerance of forward voltage: ±0.05V.

2. Tolerance of dominant wavelength: ±1.0nm.

^{2.} Solder time less than 5 seconds at temperature extreme.



Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted

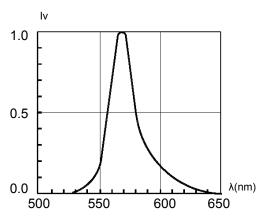


Fig. 1 Relative Luminous Intensity vs. Wavelength @ 20mA

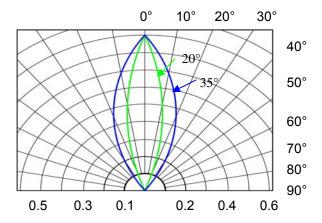


Fig. 2 Directivity Radiation Diagram

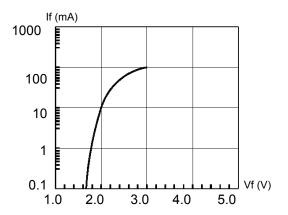


Fig. 3 Forward Current vs. Forward Voltage

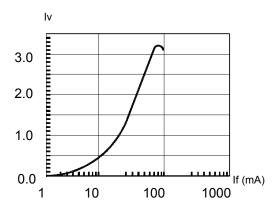


Fig. 4 Relative Luminous Intensity vs. Forward Current Normalize @ 20 mA

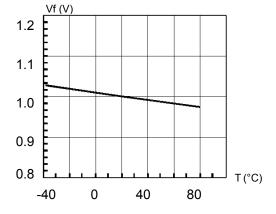


Fig. 5 Forward Voltage vs. Temperature

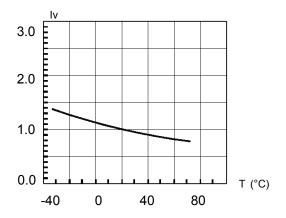
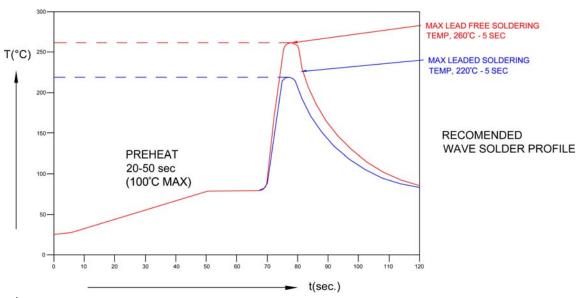


Fig. 6 Relative Luminous Intensity vs. Temperature

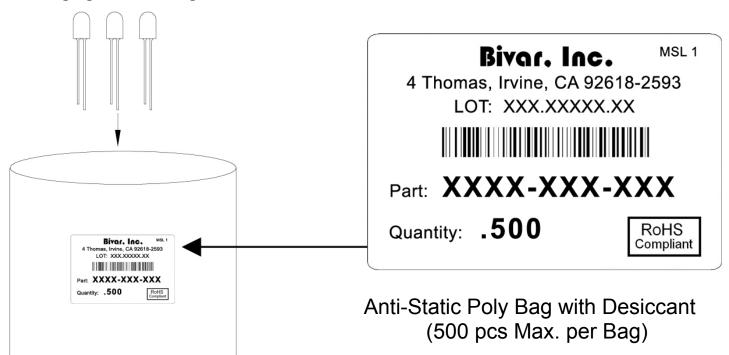


Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile					
Preheat Temperature: 100°C Max.	Peak Temperature: 260°C Max.				
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217°C: 5 Seconds Max.				
Note: Turn off top heater at preheat to prevent the lamp body directly exposed to the heat source.					

Packaging and Labeling Plan



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