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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3mm (T1) Package Discrete LED COOL WHITE

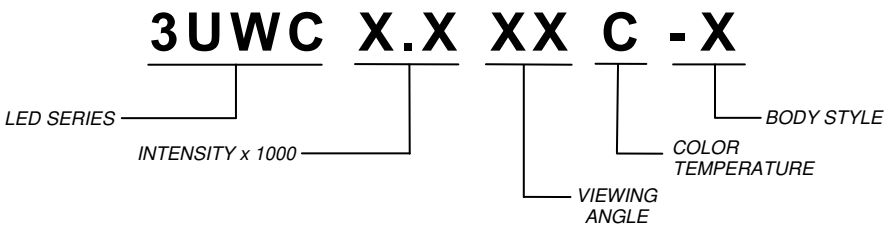
3UWCX.XXXC-X

- **Industry Standard 3mm (T1) Package**
- **RoHS Compliant**
- **Water Clear Lens**
- **6500K Color Temperature**
- **Multiple Intensity and Viewing Angle Options**
- **Available in Flange and Standard LED Body styles**
- **Ideal for Backlighting, Status Indication, and Display**

Bivar's 3mm T1 Package 3UWC Series LED may be used in almost any application. They are offered in 6500K color temperature and come in multiple intensity, viewing angle, and body styles. Bivar offers a water clear LED lens for maximum light output. The Flange LED is ideal for Panel Mount Clip & Ring assemblies and the Standard LED is ideal for vertical spacer and holder assemblies.

Part Number	Material	Emitted Color	Color Temperature	Lens Appearance	Viewing Angle
3UWC5.035C-F	InGaN/Sapphire	WHITE	6500K	Water Clear	35°
3UWC8.035C-F					35°
3UWC5.030C					30°
3UWC8.030C					30°

Part Number Designation

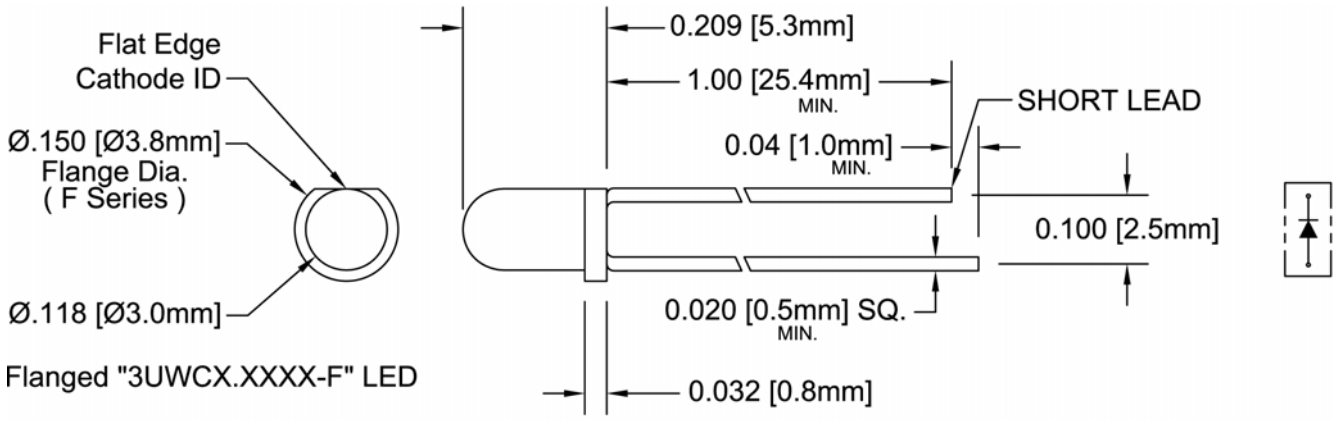


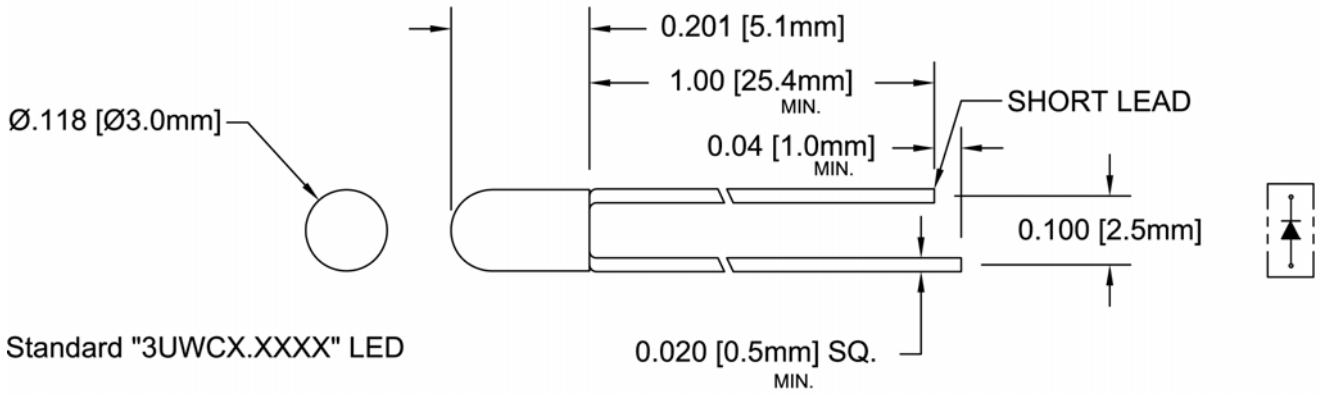
ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

Moisture Sensitivity Levels 1

Outline Dimensions





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

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	120 mW
Forward Current (DC)	30 mA
Peak Forward Current [1]	100mA
Reverse Voltage	5 V
Operating Temperature Range	-25 ~ +80°C
Storage Temperature Range	-30 ~ +80°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. 2. Solder time less than 5 seconds at temperature extreme.

Electrical / Optical Characteristics

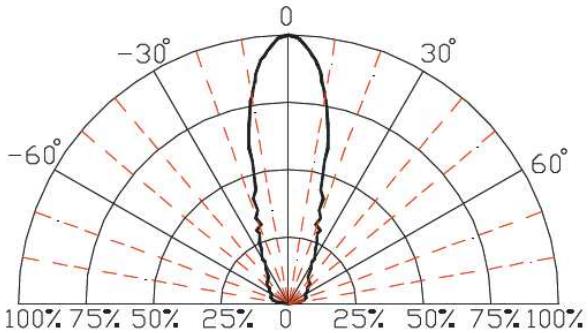
T_A = 25°C & I_F = 20 mA unless otherwise noted

Part Number	Forward Voltage (V)[1]			Recommend Forward Current (mA)			Reverse Current (μA)	CCT (Kelvin)			Luminous Intensity Iv (mcd)			Viewing Angle 2 Θ ½ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
3UWC5.035C-F	3.0	3.4	3.8	/	20	/	10	/	6500	/	4000	5000	/	35
3UWC8.035C-F								/	6500	/	6000	8000	/	35
3UWC5.030C	3.0	3.4	3.8	/	20	/	10	/	6500	/	4000	5000	/	30
3UWC8.030C								/	6500	/	6000	8000	/	30

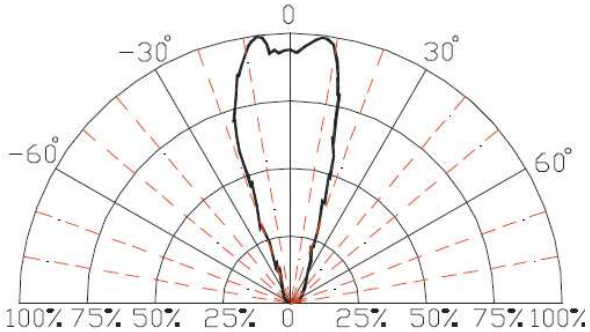
Notes: 1. Tolerance of forward voltage : ±0.05V.

Directivity Radiation — Relative Luminous Intensity vs. Radiation Angle

Ta = 25°C unless other noted



(30° Viewing Angle)



(35° Viewing Angle)

Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted

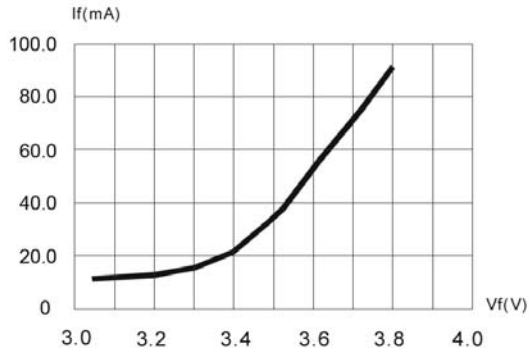


Fig.1 Forward Current vs.Forward Voltage

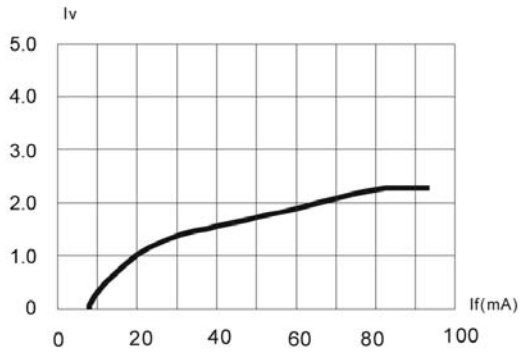


Fig.2 Relative Luminous Intensity vs.Forward Current

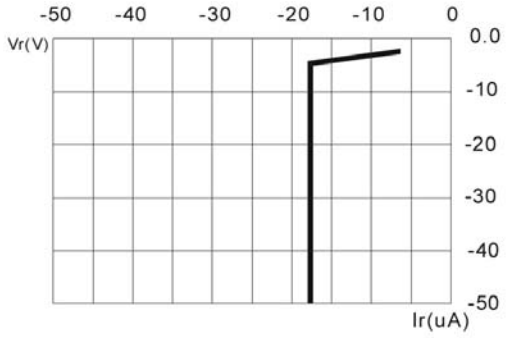


Fig.3 Reverse Current vs.Reverse Voltage

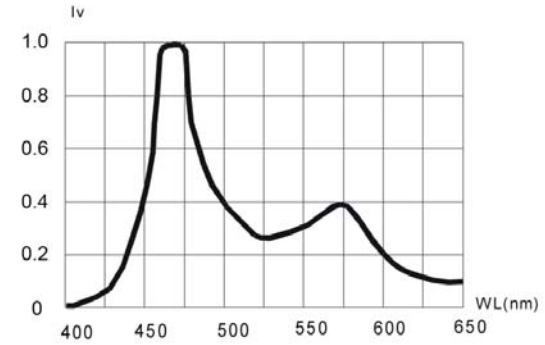


Fig.4 Relative Luminous Intensity vs.Wavelength

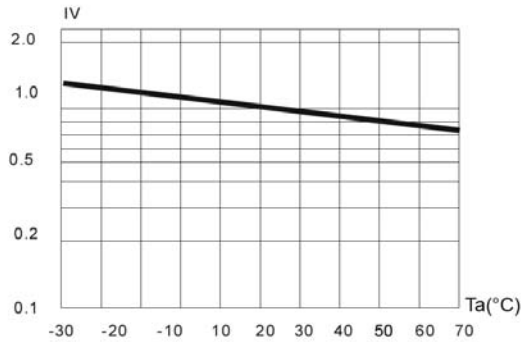


Fig.5 Relative Luminous Intensity
vs.Ambient Temperature

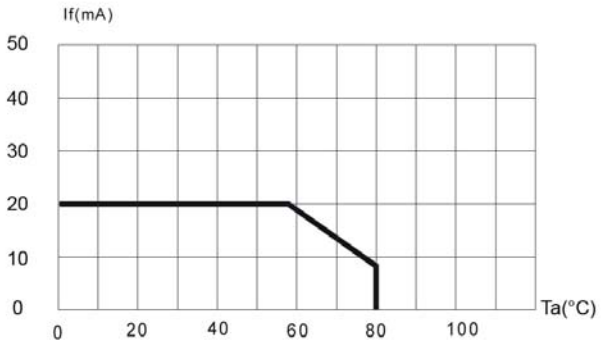
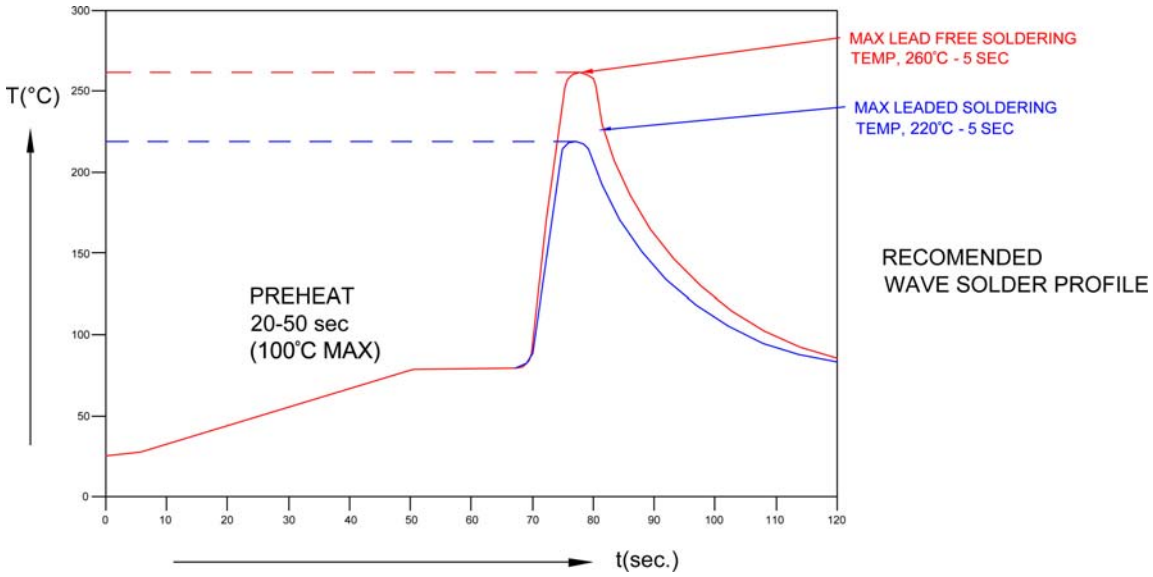


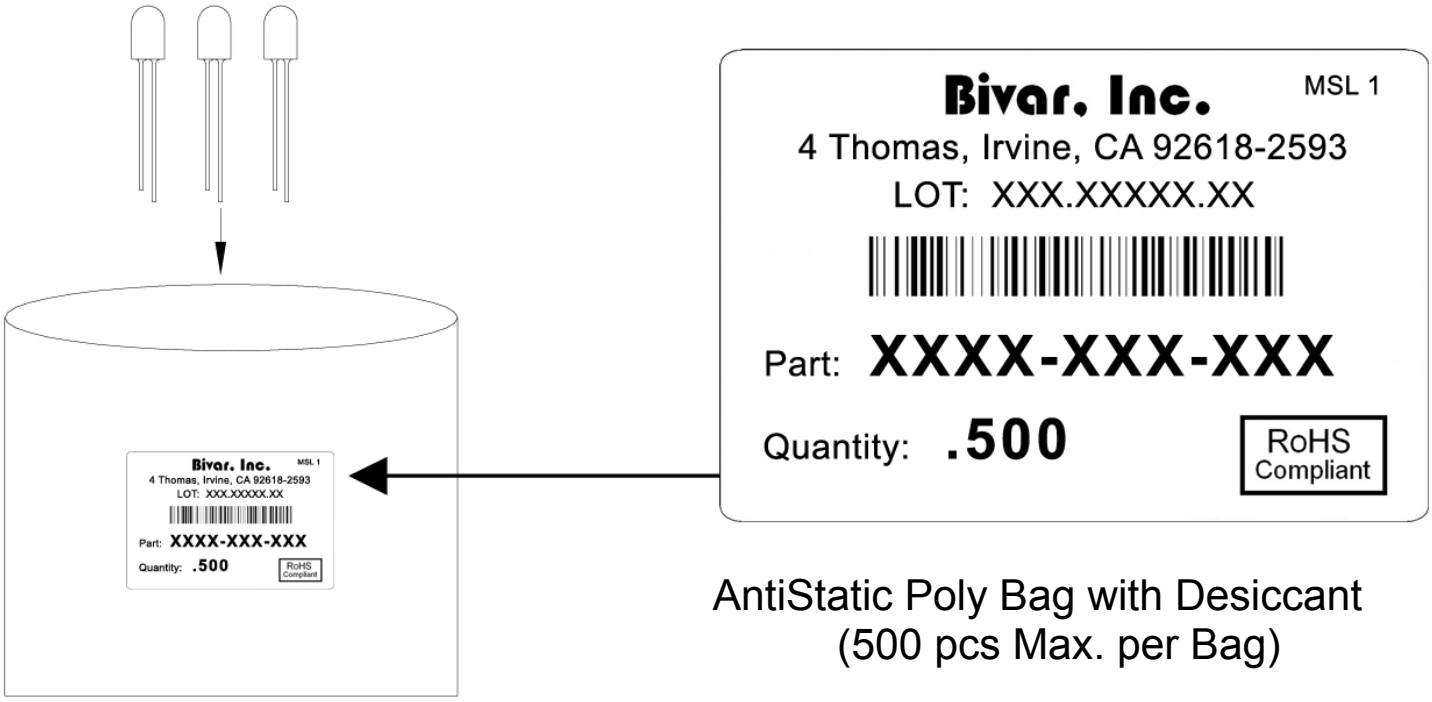
Fig.6 Maximum Forward Current
vs.Ambient Temperature

Recommended Soldering Conditions



Recommended Lead Free Wave Soldering Profile	
Preheat Temperature: 100ºC Max.	Peak Temperature: 260ºC Max.
Preheat Time: 20 ~ 50 Seconds	Solder Time Above 217ºC: 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



AntiStatic Poly Bag with Desiccant
(500 pcs Max. per Bag)