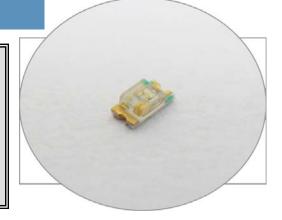
BIVAR



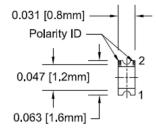
- Industry Standard 0603 Package
- **♦** RoHS Compliant
- UV Emitting LED
- Water Clear Lens
- **♦ Wide Viewing Angle**
- ♦ Ideal for Curing, Detection, and Medical Applications

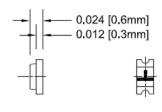


Bivar's Surface Mount 0603 UV package LED is offered in a standard 0603 foot print and is ideal for any UV applications. The miniature package provides long life and reliability making it ideal for industrial curing, hazard detection, medical applications such as instrument sterilization, fluorescent counterfeit watermark detection, and forensic applications. The water clear LED lens provides for maximum radiant power output and wide viewing angles. Bivar SM0603 UV LED is packaged in standard tape and reels for pick and place assemblies.

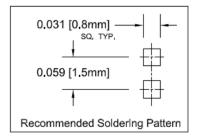
Part Number	Material	Emitted Color	Peak Wavelength λp(nm)	Lens Appearance	Radiant Power (mW)	Viewing Angle
SM0603UV-400	InGaN/SiC	ULTRA VIOLET	400 ~ 405	Water Clear	5 ~ 10	130°

Outline Dimensions









Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ± 0.010 " unless otherwise noted.



↑ CAUTION: EMITS ULTRAVIOLET RADIATION!!

- \bullet This UV (ultraviolet) LED during operation radiates intense UV light.
- Do not look directly into the UV light during operation of device. This can be harmful to human body especially to the
 eyes and skin, even for brief period due to the intense UV light.
- If viewing the UV light is necessary, please use UV filtered glasses to avoid damage by the UV light.

 If the LIV LED in your product might be viewed directly please affix a caution label to your product to the
- If the UV LED in your product might be viewed directly, please affix a caution label to your product to that effect
 Avoid direct eye and skin exposure to UV light. Keep out of reach of children.







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



Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	100 mW
Forward Current (DC)	25 mA
Peak Forward Current ¹	100 mA
Reverse Voltage	5 V
Operating Temperature Range	-30 ~ +80°C
Storage Temperature Range	-40 ∼ +85°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)	Dominant		Radiant Power (mW)			Viewing Angle 2 Θ ½ (deg)		
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM0603UV-400	/	3.4	4.2	1	20	/	10	/	/	/	5	/	10	130

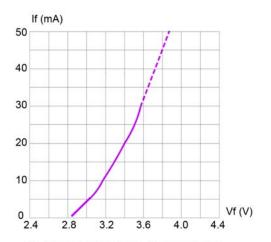
Notes: 1. Tolerance of forward voltage: ±0.05V.

2. Tolerance of dominant wavelength: ±1.0nm.



Typical Electrical / Optical Characteristics

T_A = 25°C unless otherwise noted



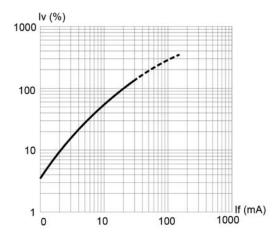
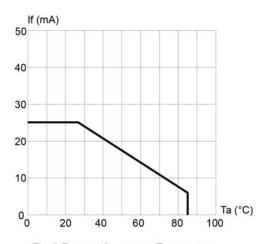


Fig. 1 Forward Current vs. Forward Voltage

Fig. 2 Relative Luminous Intensity vs. Forward Current





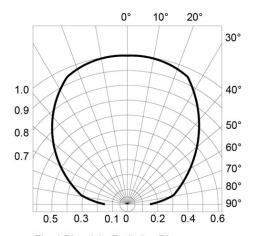
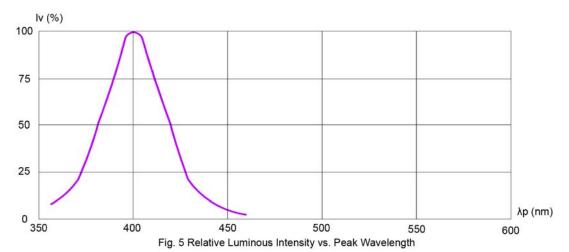


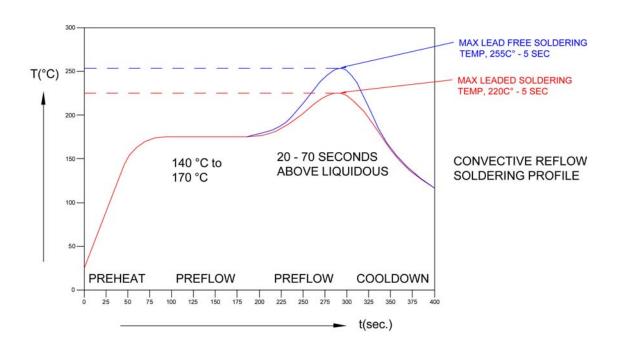
Fig. 4 Directivity Radiation Diagram



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

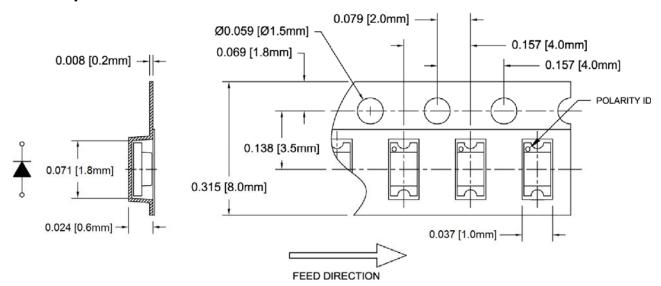


Recommended Soldering Conditions



Tape and Reel Dimensions

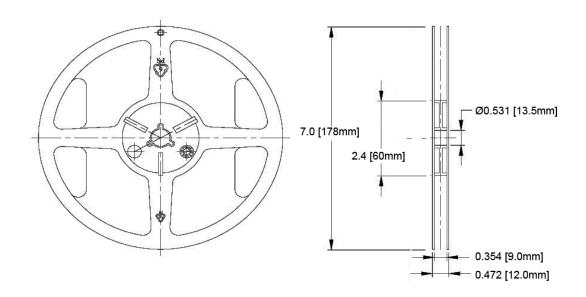
Note: 4000 pcs/Reel



Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance: ±0.010" unless otherwise noted.

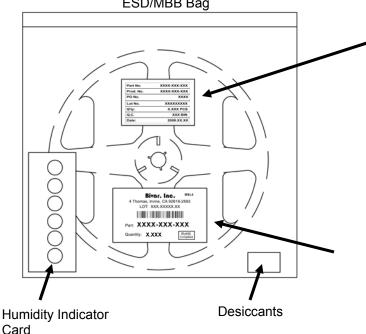




Packaging and Labeling Plan

Note: 1 Reel / Bag

Vacuum and Heat Sealed ESD/MBB Bag



Outline Drawings Notes:

- 1. All dimensions are in inches [millimeters].
- 2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"

Part No.	xxxx-xxx-xxx
Part No.	********
Prod. No.	XXXX-XXX-XXX
PO No.	xxxx
Lot No.	XXXXXXXX
Q'ty:	X.XXX PCS
Q.C.	XXX BIN
Date:	2008.XX.XX

Internal Quality Control

Bivar. Inc.

MSL4

4 Thomas, Irvine, CA 92618-2593 LOT: XXX.XXXXX.XX



Part: XXXX-XXX

Quantity: XXXX

RoHS Compliant

Bivar Standard Packaging Label

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard LEDs - SMD category:

Click to view products by Bivar manufacturer:

Other Similar products are found below:

LTST-C19GD2WT LTST-N683GBEW LTW-170ZDC LTW-M140SZS40 598-8110-100F 598-8170-100F 598-8610-202F 67
22VRVGC/TR8 AAAF5060QBFSEEZGS HLMP-6305-L0011 ALMD-LB36-SV002 APT1608QGW 15-21UYC/S530-A3/TR8

EASV1803BA0 LG M67K-H1J2-24-0-2-R18-Z LS A676-P2S1-1 SML310BATT86 SML-512VWT86A SML-LX0606SISUGC/A SML
LXL1307SRC-TR SML-LXR851SIUPGUBC LT1ED53A FAT801-S AM27ZGC03 APB3025SGNC APFA3010SURKCGKQBDC

APHK1608VGCA APT2012QGW CLX6D-FKB-CN1R1H1BB7D3D3 LTST-C250KGKT LTW-020ZDCG LTW-21TS5 LTW-220DS5

JANTXM19500/521-02 UYGT801-S LO T67F-V1AB-24-1 YGFR411-H SML-LX0402IC-TR CMDA20AYAA7D1S CMDA16AYDR7A1X

339-1SURSYGW/S530-A2 598-8040-100F 598-8070-100F 598-8140-100F 598-8610-200F EAPL3527GA5 67-11/BHC-M1N2B8Y/2A0

SML-LXL1209SYC/ATR EASV3020YGA0 EAST16086YA5