SURFACE MOUNT LED ULTRAVIOLET, 0603 PACKAGE



SM0603UV-405

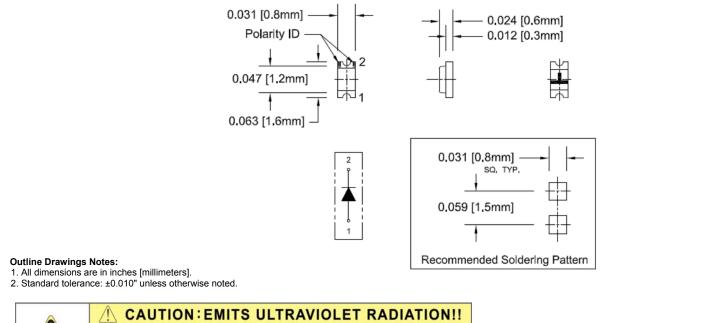
- Industry Standard 0603 Package
- **RoHS** Compliant
- **UV Emitting LED**
- Water Clear Lens
- Wide Viewing Angle
- Ideal for Curing, Detection, and Medical Applications



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-405	InGaN/SiC	ULTRA VIOLET	405 ~ 410	Water Clear	5 ~ 10	130°	

Outline Dimensions



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





Absolute Maximum Ratings

 $T_A = 25^{\circ}C$ 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 4, 400/ Duty Outly Duty N/5/8 204 man 0, 0 Outly first last them.	

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 art Number Voltage (V) ¹		-	Recommend Forward Current (mA)			Reverse Current (µA)	Dominant			Radiant Power (mW)			Viewing Angle 2 O ½ (deg)
	MIN	TYP	MAX	MIN	TYP	MAX	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM0603UV-405	/	3.4	4.2	/	20	/	10	/	/	/	5	/	10	130

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

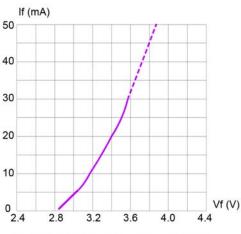
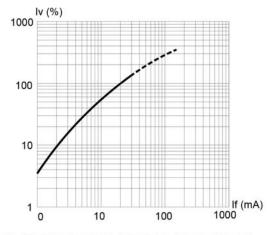
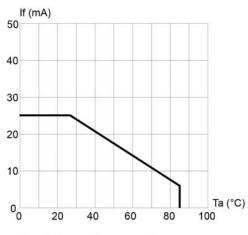


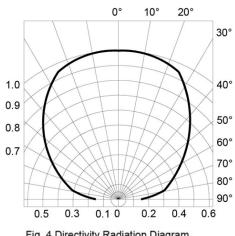
Fig. 1 Forward Current vs. Forward Voltage



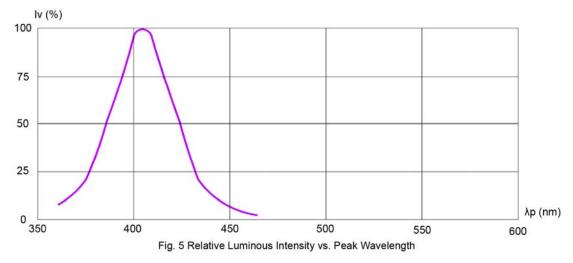










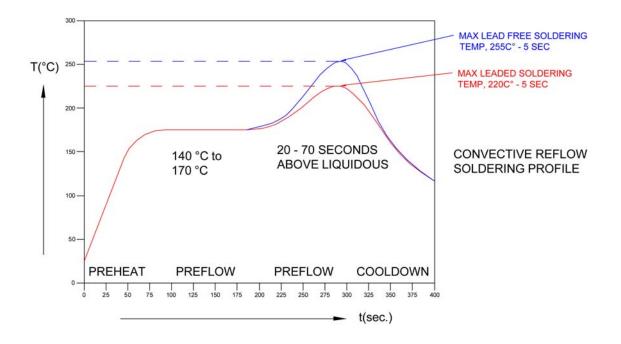


Bivar reserves the right to make changes at any time without notice.

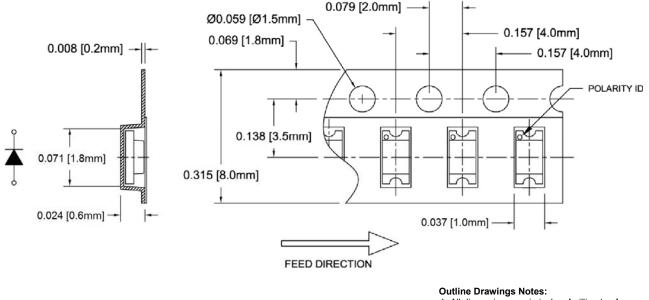
SURFACE MOUNT LED ULTRAVIOLET, 0603 PACKAGE



Recommended Soldering Conditions



Tape and Reel Dimensions Note: 4000 pcs/Reel

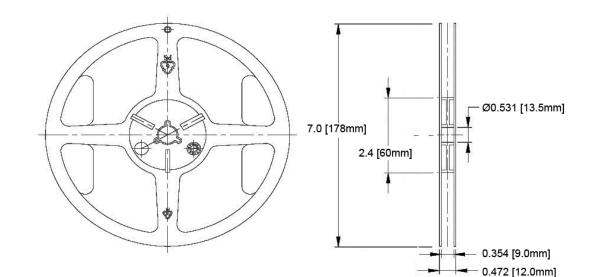


All dimensions are in inches [millimeters].
Standard tolerance: ±0.010" unless otherwise noted.

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

SURFACE MOUNT LED ULTRAVIOLET, 0603 PACKAGE



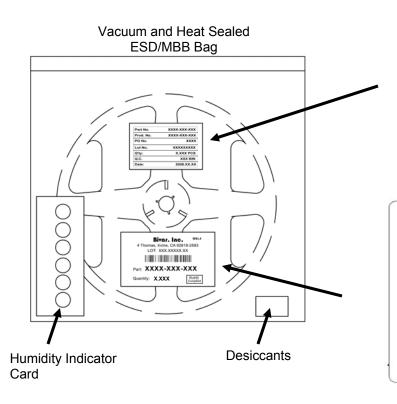


Outline Drawings Notes:

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

X.XXX ± 0.010 X.X ± 0.1"

Packaging and Labeling Plan Note: 1 Reel / Bag



XXXX-XXX-XXX
XXXX-XXX-XXX
XXXX
XXXXXXXXX
X.XXX PCS
XXX BIN
2008.XX.XX

Internal Quality Control

Bivar. Inc.	MSL4
4 Thomas, Irvine, CA 92618 LOT: XXX XXXXX XX	
Part: XXXX-XXX-X	XX
Quantity: X.XXX	RoHS Compliant

Bivar Standard Packaging Label

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

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 42-21UYC/S530-A3/TR8 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