SURFACE MOUNT LED
WHITE, 5730 PACKAGE, 0.5W

SM5730UWDX05

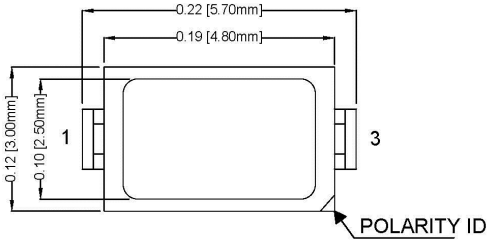
- **Industry Standard 5730 Package**
- **RoHS Compliant**
- **Small Package and Footprint**
- **X - (C) Cool White, (N) Neutral White, (W) Warm White**
- **Wide Viewing Angle**
- **Ideal for Lighting and Backlighting Application**

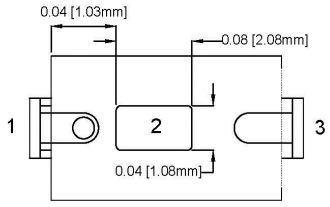


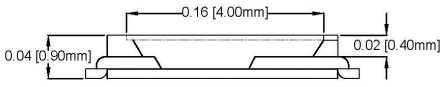
Bivar Surface Mount 5730 package LED may be used in nearly any lighting or backlighting application. These 0.5 Watt SMD LED's have a minimum CRI Value of 80 and are available in 3 color temperatures to meet any illumination needs: Cool, Neutral and Warm White. The SM5730 Series is conveniently packaged in standard tape and reels for pick and place assemblies.

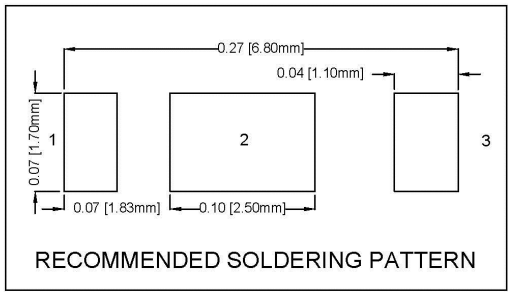
Part Number	Material	Emitted Color	Lens Color	Luminous Flux (lm) TYP.	Viewing Angle
SM5730UWDC05	InGaN	Cool White	Diffused	57	120°
SM5730UWDN05	InGaN	Neutral White	Diffused	57	120°
SM5730UWDW05	InGaN	Warm White	Diffused	53	120°

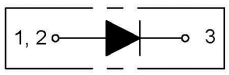
Outline Dimensions











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

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

RoHS Compliant

Moisture Sensitivity Levels 4

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

Absolute Maximum Ratings

T_A = 25°C unless otherwise noted

Power Dissipation	0.63 W
Forward Current (DC)	180 mA
Peak Forward Current [1]	260 mA
Reverse Voltage	5 V
Electrostatic Discharge (HBM)	2000 V
Operating Temperature Range	-40 ~ +100°C
Storage Temperature Range	-40 ~ +100°C
Junction Temperature	115°C
Lead Soldering Temperature [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 = 150 mA unless otherwise noted

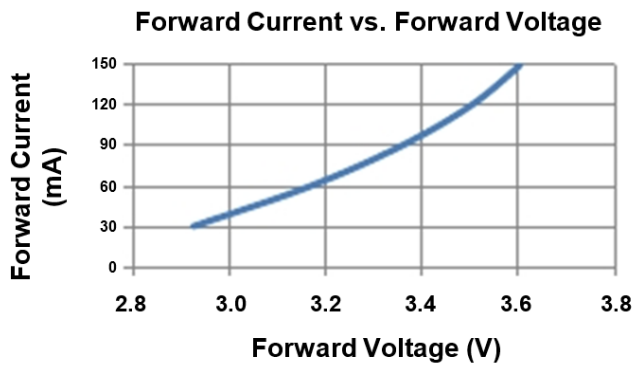
Part Number	Forward Voltage (V)			Recommend Forward Current (mA)	Reverse Current (μA) V_R=5V	CCT (Kelvin)			Luminous Flux (lm)			Viewing Angle 2 Θ ½ (deg)
	MIN	TYP	MAX	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM5730UWDC05	2.8	/	3.5	150	10	5300	6000	6480	50	57	67	120
SM5730UWDN05	2.8	/	3.5	150	10	3700	4000	4500	50	57	65	120
SM5730UWDW05	2.8	/	3.5	150	10	2700	3000	3250	45	53	60	120

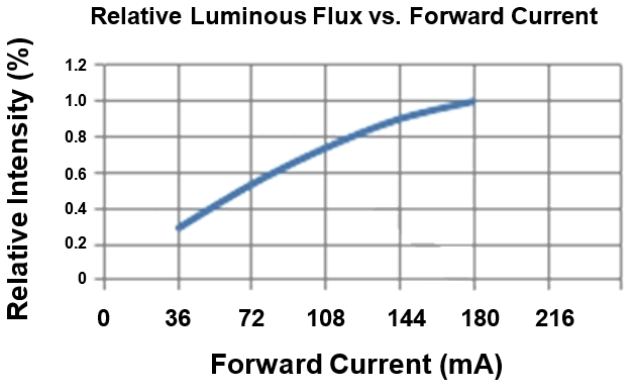
Notes: 1. The above forward voltage measurement allowance tolerance is ±0.1V.
2. The above luminous flux measurement allowance tolerance ±10%.

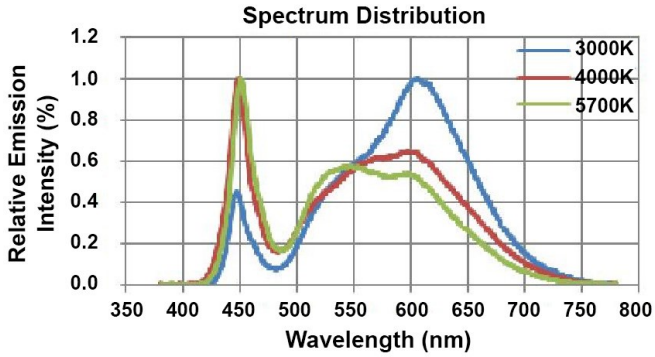
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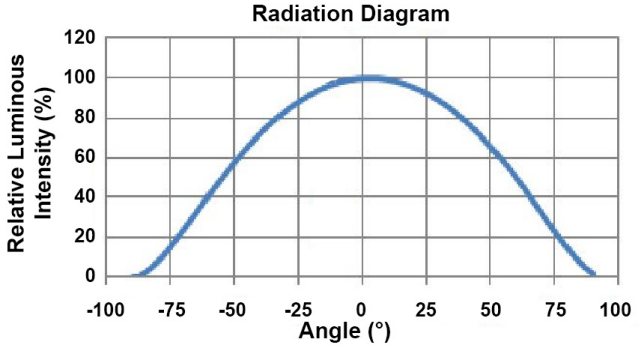
Typical Electrical / Optical Characteristics

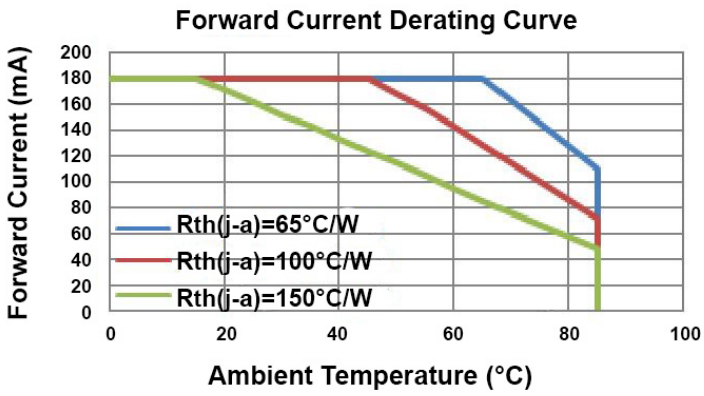
T_A = 25°C unless otherwise noted

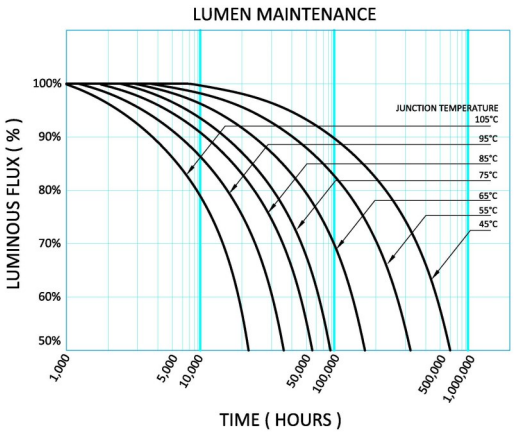






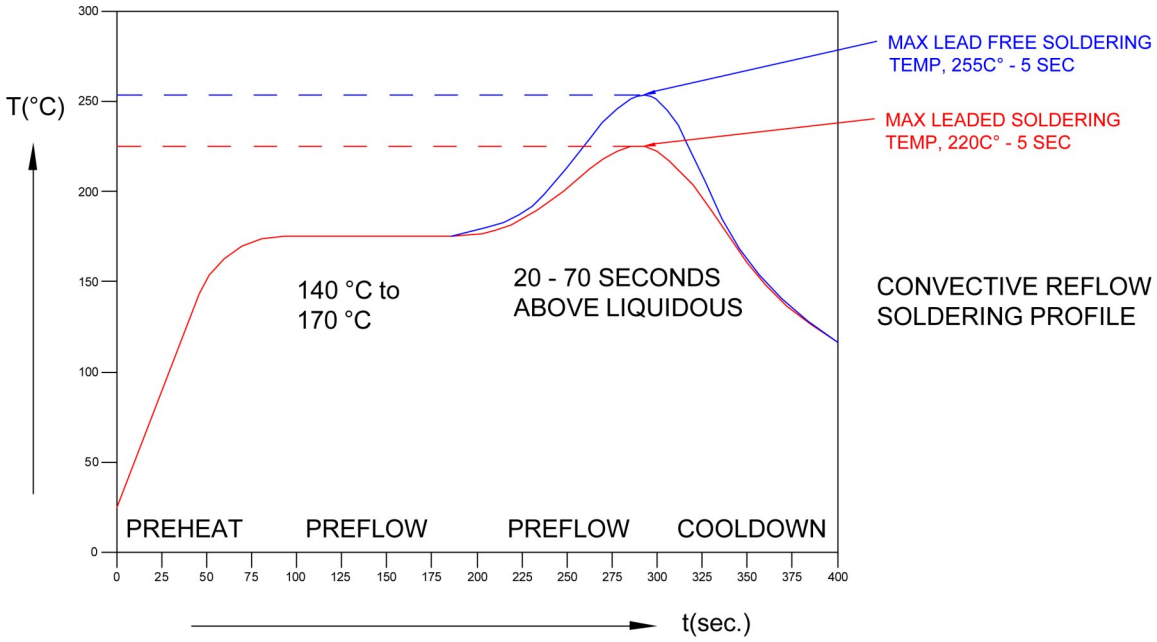






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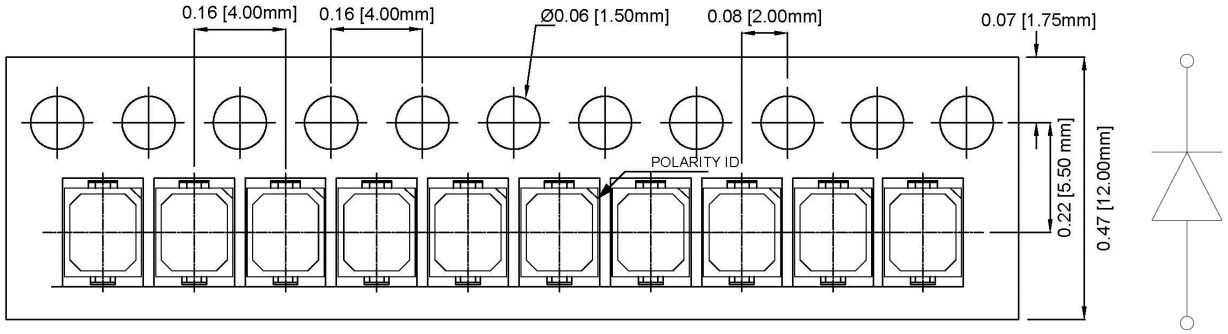
Recommended Soldering Conditions



Tape and Reel Dimensions

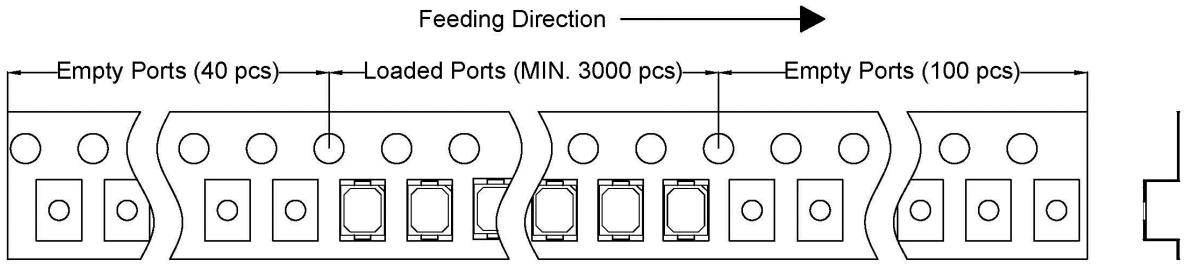
Note: 3000 pcs/Reel

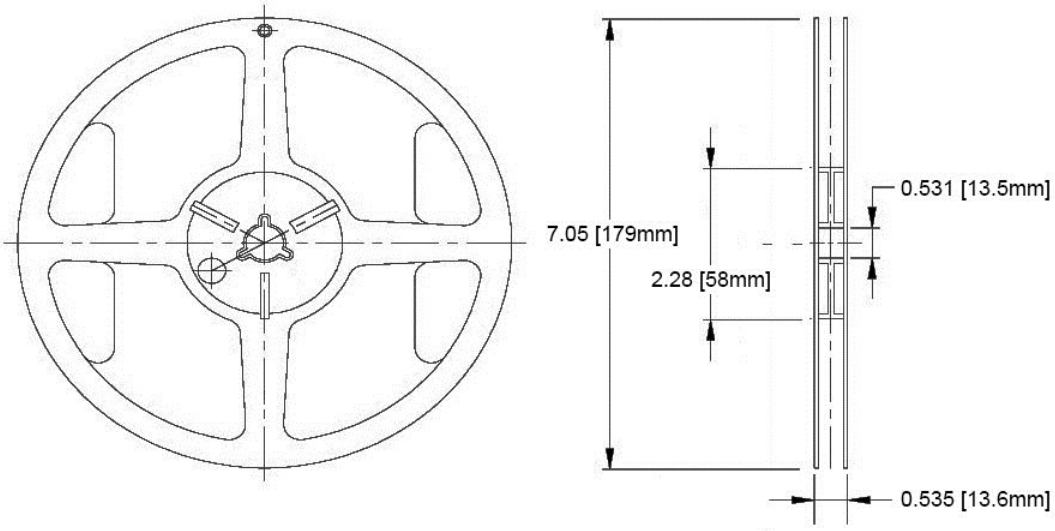
- **Dimensions of Tape**



- **Arrangement of Tape**

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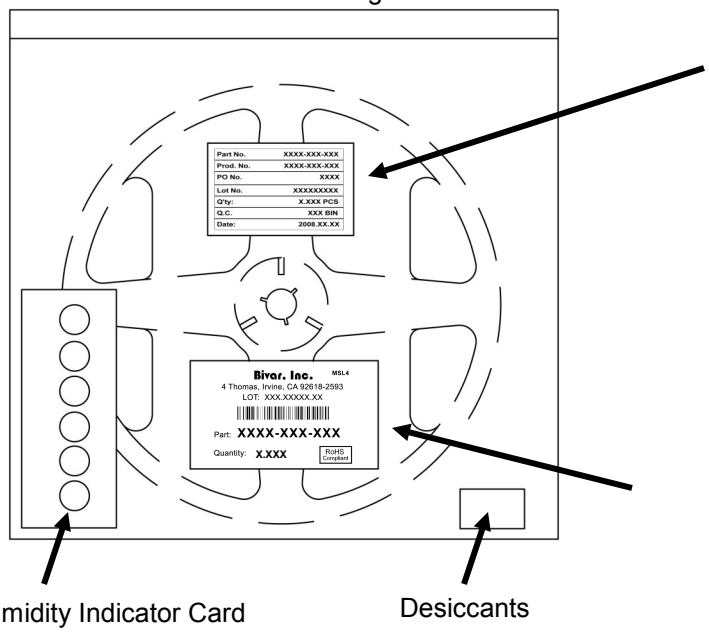


Outline Drawings Notes:
1. All dimensions are in inches [millimeters].
2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"
   X.X ± 0.1"

Packaging and Labeling Plan

Note: 1 Reel / Bag

Vacuum and Heat Sealed
ESD/MBB Bag



Humidity Indicator Card

Desiccants

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

Internal Quality Control



Bivar Standard Packaging Label

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

BIVAR:

SM5730UWDN05 SM5730UWDW05 SM5730UWDC05