



**THE DATASHEET OF  
SM3527UWDN01**

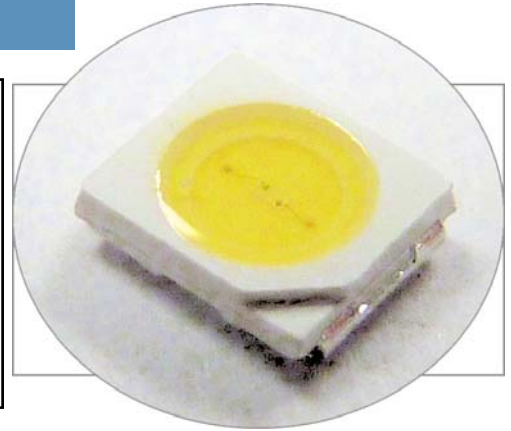


# SURFACE MOUNT LED WHITE, 3527 PACKAGE, 0.1W



## SM3527UWD~~X~~01

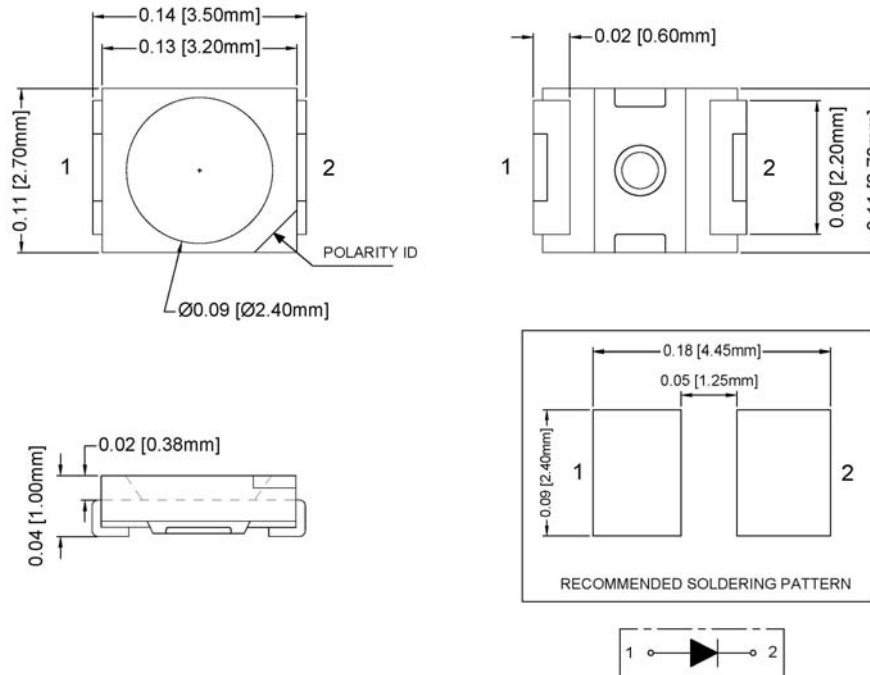
- ◆ Industry Standard 3527 Package
- ◆ RoHS Compliant
- ◆ Small Package and Footprint
- ◆ ~~X~~ - (C) Cool White, (N) Neutral White, (W) Warm White
- ◆ Wide Viewing Angle
- ◆ Ideal for Lighting and Backlighting Application



Bivar Surface Mount 3527 package LED may be used in nearly any lighting or backlighting application. These 0.1 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 SM3527 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
SM3527UWDC01	InGaN	Cool White	Diffused	11	120°
SM3527UWDN01	InGaN	Neutral White	Diffused	11	120°
SM3527UWDW01	InGaN	Warm White	Diffused	10	120°

## Outline Dimensions



### Outline Drawings Notes:

1. All dimensions are in inches [millimeters].
2. Standard tolerance:  $\pm 0.010$ " unless otherwise noted.



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

## Absolute Maximum Ratings

$T_A = 25^\circ\text{C}$  unless otherwise noted

Power Dissipation	0.14 W
Forward Current ( DC )	40 mA
Peak Forward Current <sup>1</sup>	100 mA
Reverse Voltage	5 V
Electrostatic Discharge (HBM)	1000 V
Operating Temperature Range	-40 ~ +85°C
Storage Temperature Range	-40 ~ +100°C
Junction Temperature	115°C
Lead Soldering Temperature <sup>2</sup>	260°C

- Notes: 1.  $\leq 10\%$  Duty Cycle, Pulse Width  $\leq 0.1$  msec.  
2. Solder time less than 5 seconds at temperature extreme.

## Electrical / Optical Characteristics

$T_A = 25^\circ\text{C}$  &  $I_F = 30$  mA unless otherwise noted

Part Number	Forward Voltage (V)			Recommend Forward Current (mA)	Reverse Current ( $\mu\text{A}$ ) $V_R=5\text{V}$	CCT (Kelvin)			Luminous Flux (lm)			Viewing Angle $2\theta_{1/2}$ (deg)
	MIN	TYP	MAX	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	TYP
SM3527UWDC01	2.9	/	3.4	30	10	5300	6000	6450	10	11	14	120
SM3527UWDN01	2.9	/	3.4	30	10	3700	4000	4250	10	11	14	120
SM3527UWDW01	2.9	/	3.4	30	10	2700	3000	3050	9	10	13	120

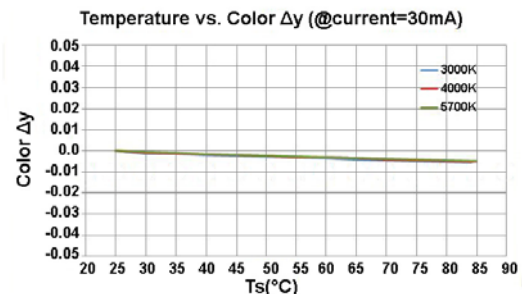
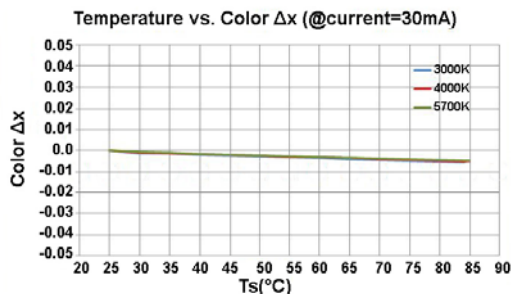
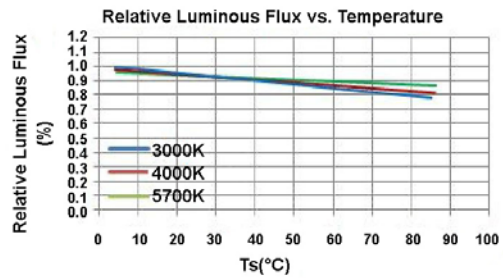
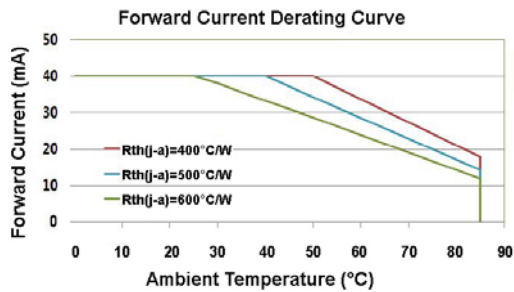
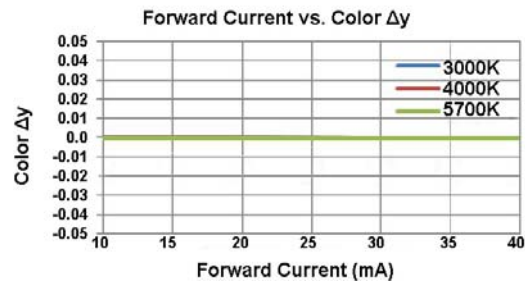
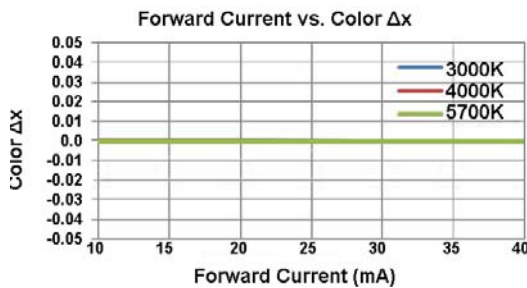
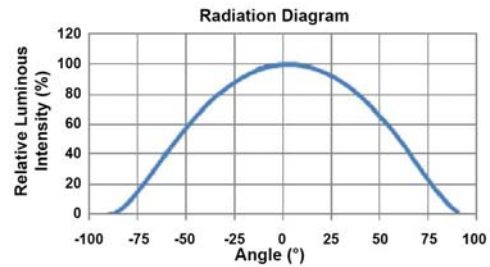
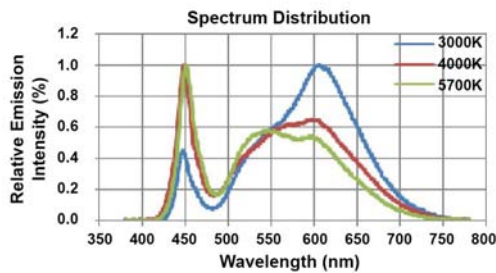
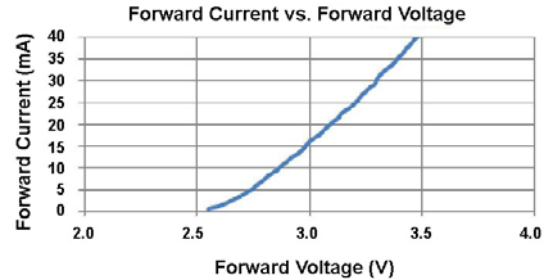
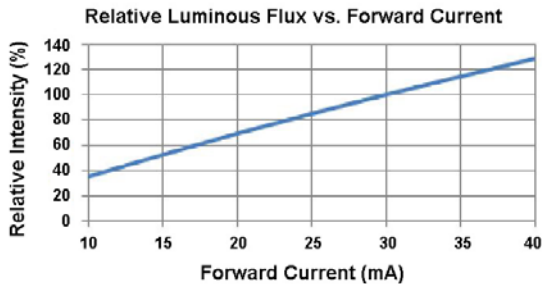
- Notes: 1. The above forward voltage measurement allowance tolerance is  $\pm 0.1\text{V}$ .  
2. The above luminous flux measurement allowance tolerance  $\pm 10\%$ .

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## Typical Electrical / Optical Characteristics

$T_A = 25^\circ\text{C}$  unless otherwise noted

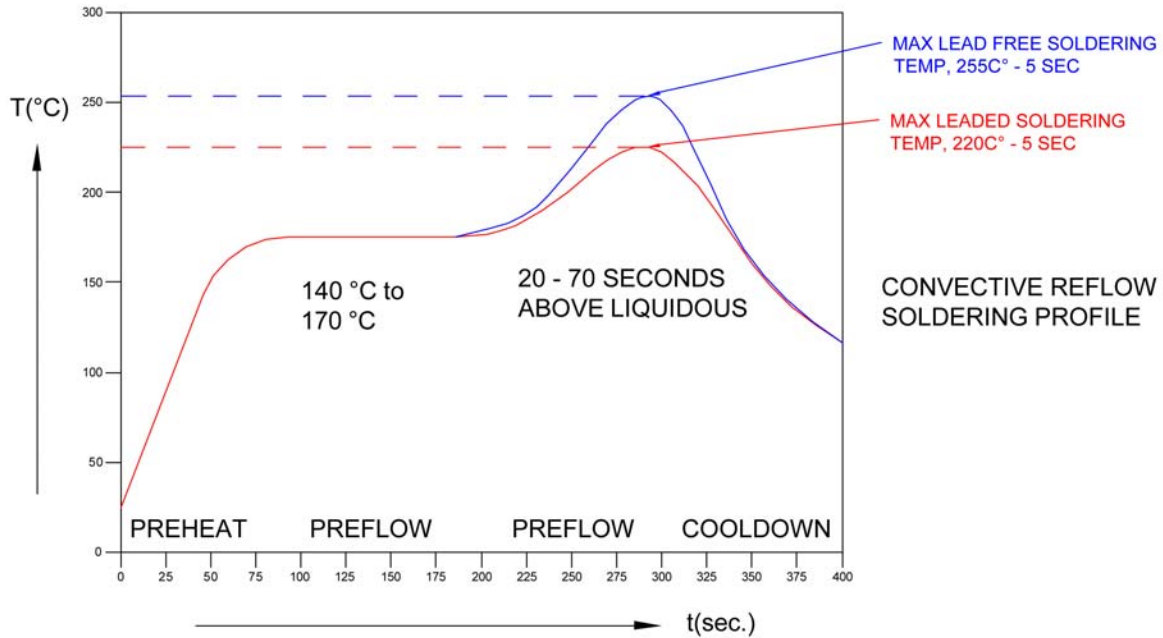


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# SURFACE MOUNT LED WHITE, 3527 PACKAGE, 0.1W



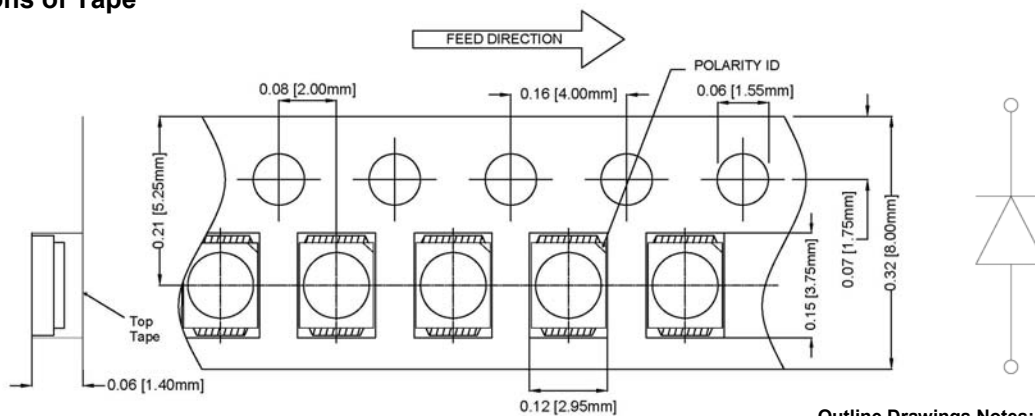
## Recommended Soldering Conditions



## Tape and Reel Dimensions

Note: 3000 pcs/Reel

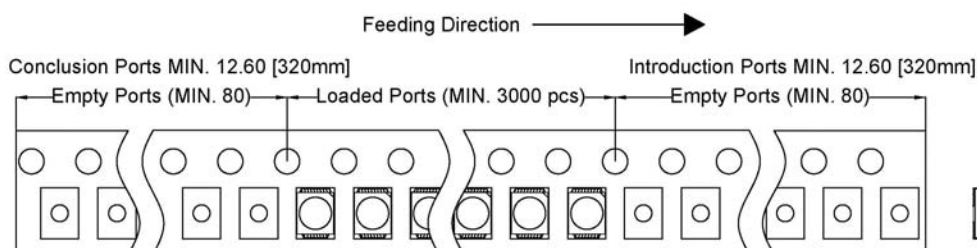
### • Dimensions of Tape



### • Arrangement of Tape

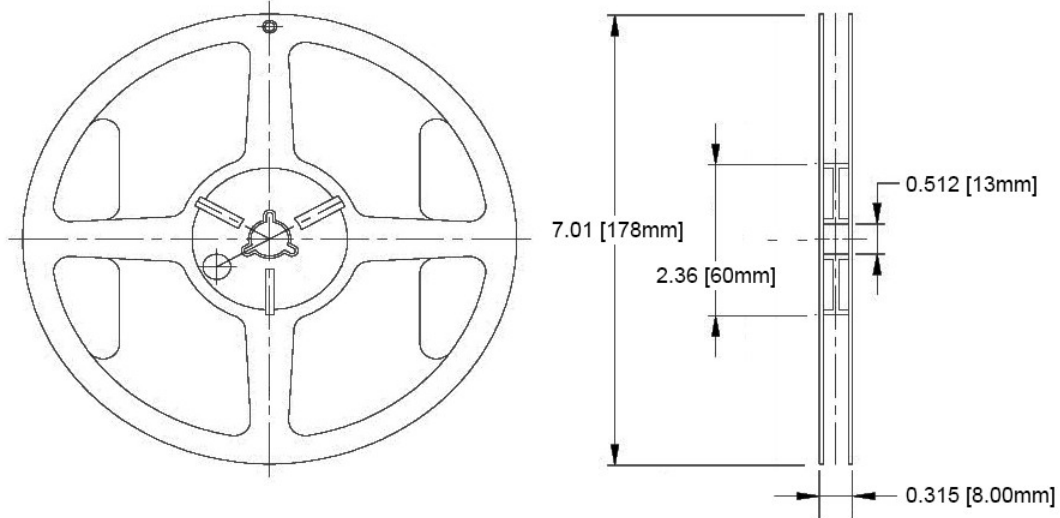
#### Outline Drawings Notes:

1. All dimensions are in inches [millimeters].
2. Standard tolerance:  $\pm 0.010$ " unless otherwise noted.



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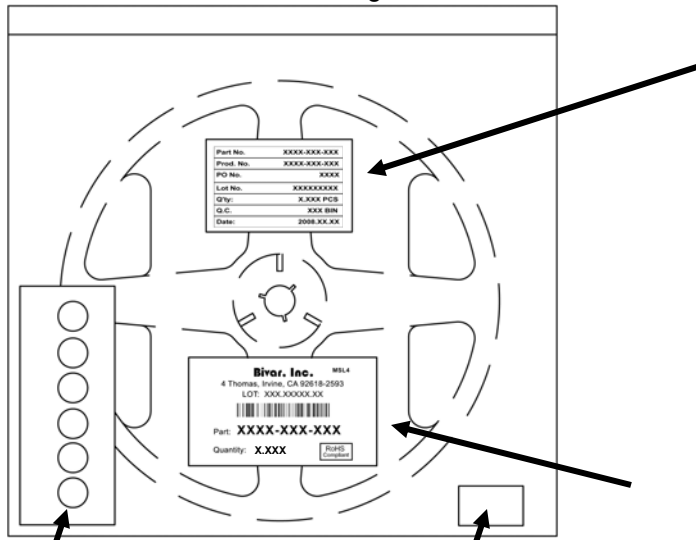


- Outline Drawings Notes:**
1. All dimensions are in inches [millimeters].
  2. Standard tolerance unless otherwise noted: X.XXX ± 0.010"  
X.X ± 0.1"

## 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.	XXXXXXXXXX
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-XXX**

Quantity: **X.XXX**

RoHS  
Compliant

Bivar Standard Packaging Label

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## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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 [Bivar Inc. Information](#)

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-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management