



# BZX584B5V1-AU SERIES

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 5.1~8.2 Volt **POWER** 200 mWatt

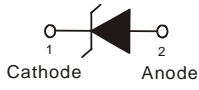
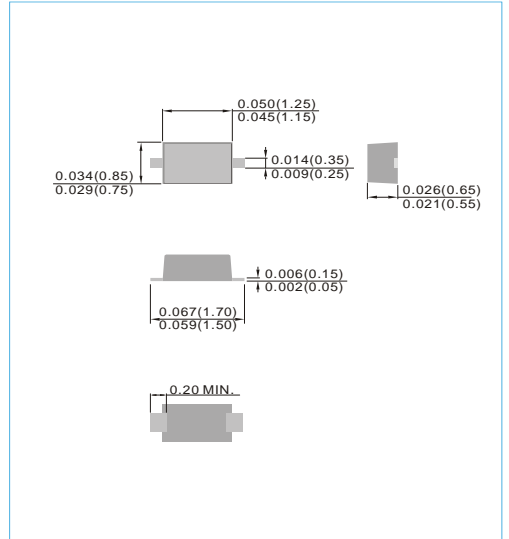
**SOD-523** Unit : inch(mm)

### FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.00005 ounces, 0.001 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Maximum Power Dissipation (Notes A) at 25°C	P <sub>D</sub>	200	mW
Operating Junction and Storage Temperature Range	T <sub>J</sub>	-55 to +150	°C

## ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
BZX584B5V1-AU	5.1	5	5.2	60	5	480	1	2	2	W9
BZX584B5V6-AU	5.6	5.49	5.71	40	5	400	1	1	2	WA
BZX584B8V2-AU	8.2	8.04	8.36	15	5	80	1	0.7	5	WE

### NOTES :

A. Mounted on a FR4 PCB, single-sided copper, mini pad.



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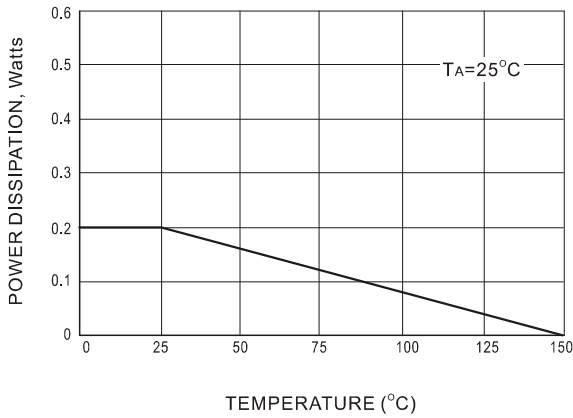


Fig.1 STEADY STATE POWER DERATING

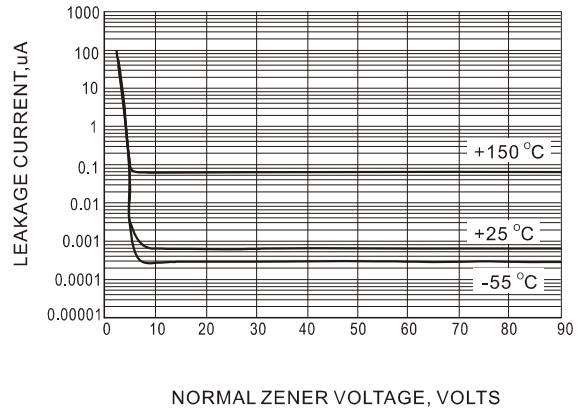


Fig.2 TYPICAL LEAKAGE CURRENT

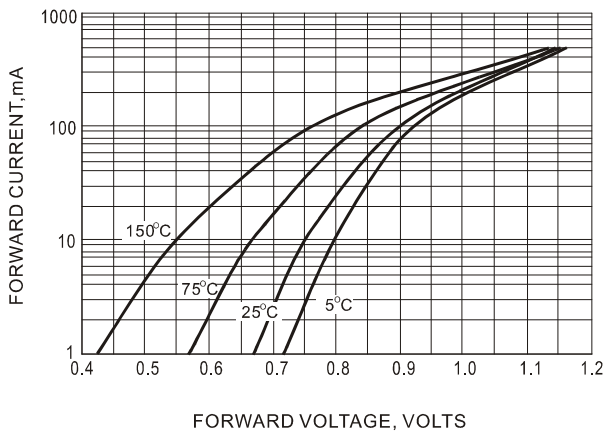
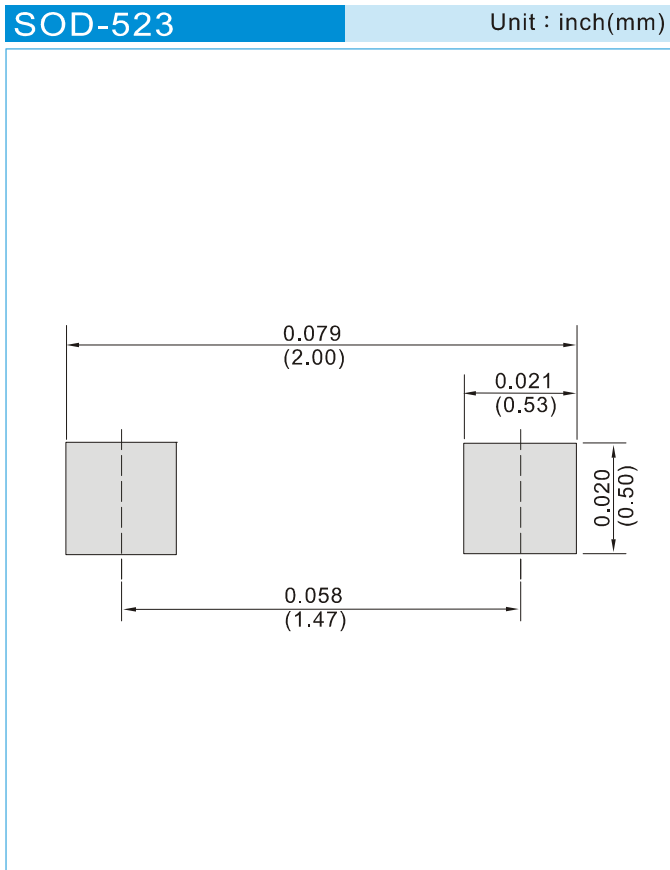


Fig.3 TYPICAL FORWARD VOLTAGE



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### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 5K per 7" plastic Reel



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### Part No\_packing code\_Version

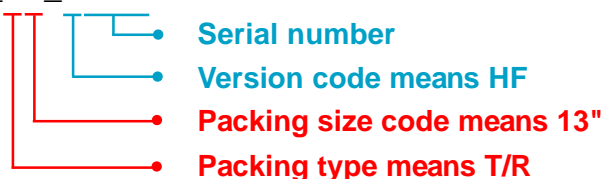
BZX584B5V1-AU\_R1\_000A1

BZX584B5V1-AU\_R2\_000A1

For example :

**RB500V-40** **R2** **00001**

Part No.



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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