

# BZX584B5V1 SERIES

## SURFACE MOUNT SILICON ZENER DIODES

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

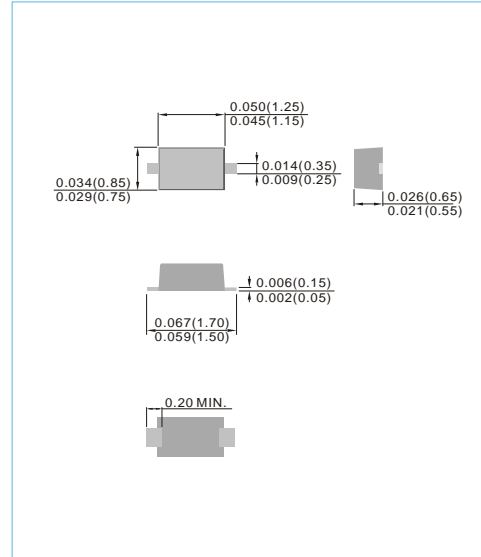
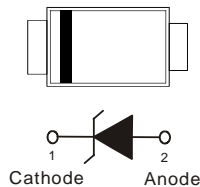
**SOD-523** Unit : inch(mm)

### FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- 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	5.1	5	5.2	60	5	480	1	2	2	W9
BZX584B5V6	5.6	5.49	5.71	40	5	400	1	1	2	WA
BZX584B8V2	8.2	8.04	8.36	15	5	80	1	0.7	5	WE

### NOTES :

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

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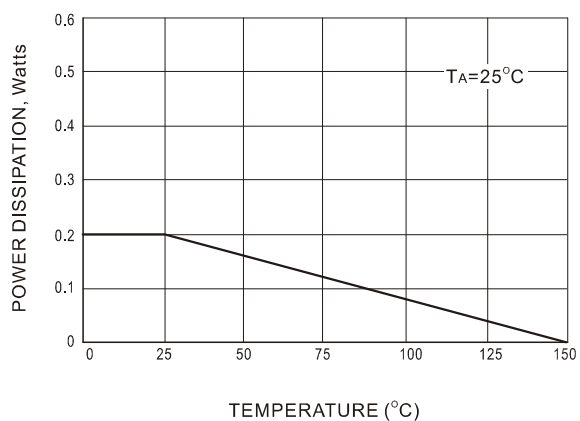


Fig.1 STEADY STATE POWER DERATING

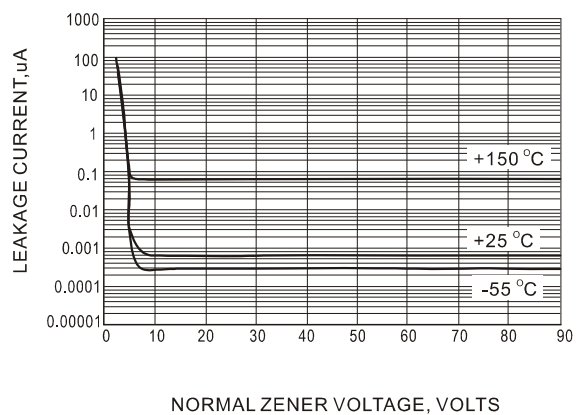


Fig.2 TYPICAL LEAKAGE CURRENT

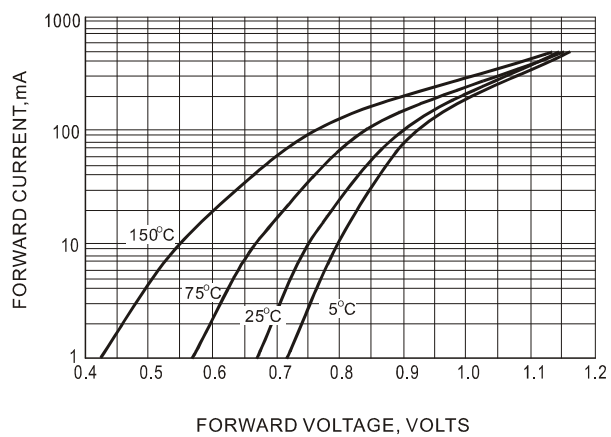


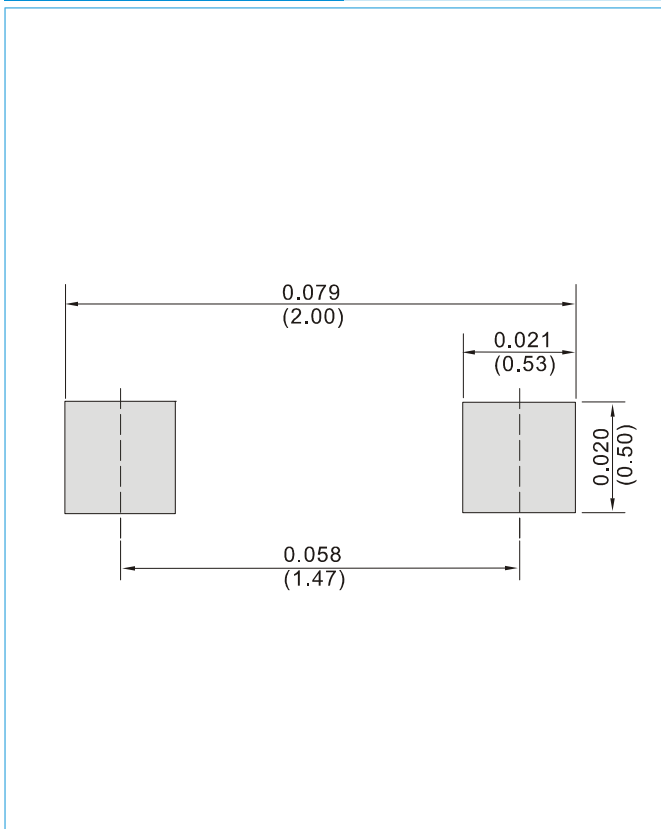
Fig.3 TYPICAL FORWARD VOLTAGE

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### MOUNTING PAD LAYOUT

**SOD-523**

Unit : inch(mm)



### ORDER INFORMATION

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

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