



BZX584B5V1 SERIES

SURFACE MOUNT SILICON ZENER DIODES

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

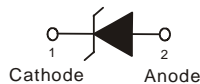
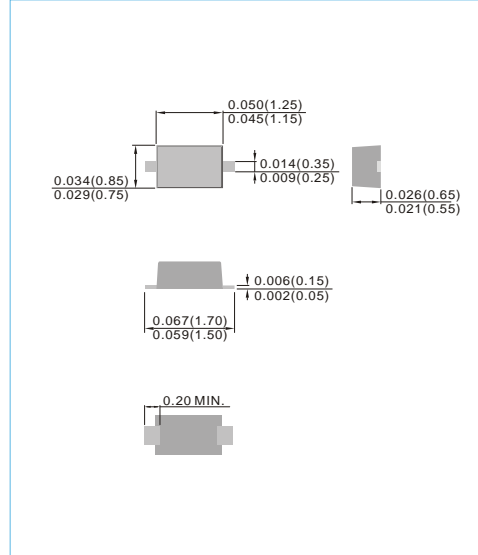
SOD-523 Unit : inch(mm)

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 _D	200	mW
Operating Junction and Storage Temperature Range	T _J	-55 to +150	°C

ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{ZT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	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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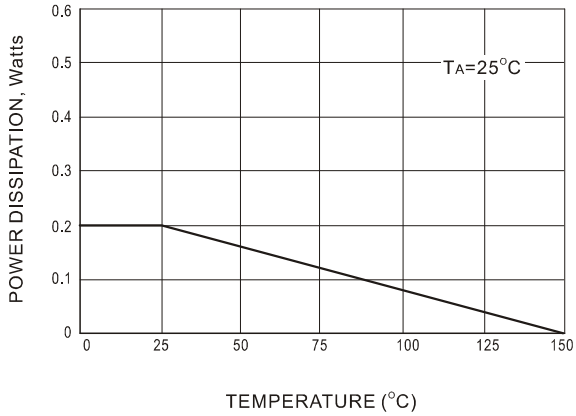


Fig.1 STEADY STATE POWER DERATING

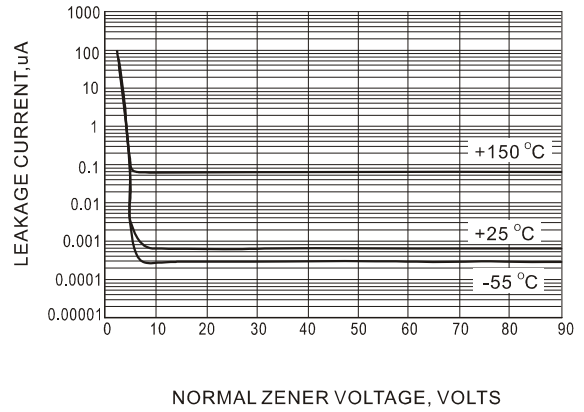


Fig.2 TYPICAL LEAKAGE CURRENT

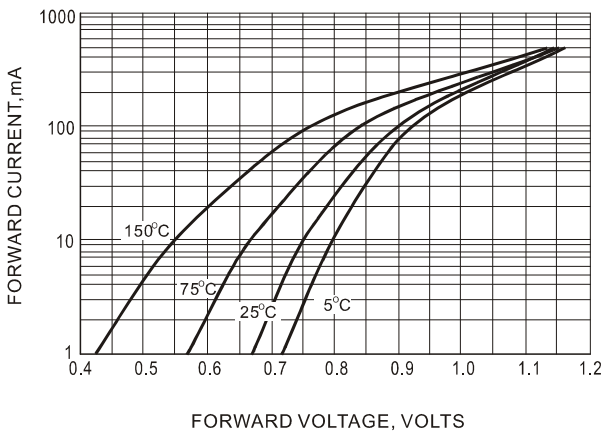
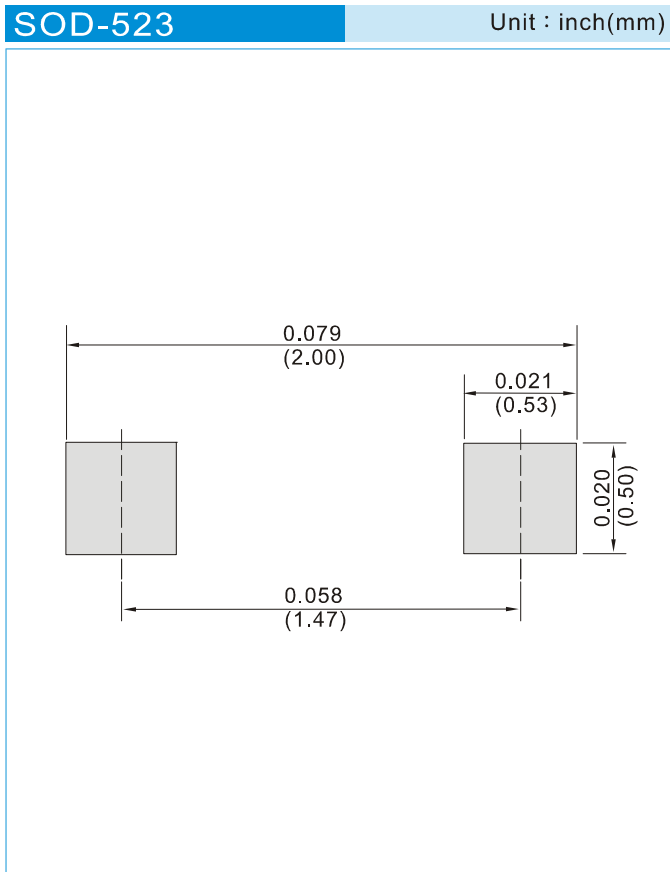


Fig.3 TYPICAL FORWARD VOLTAGE



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MOUNTING PAD LAYOUT



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

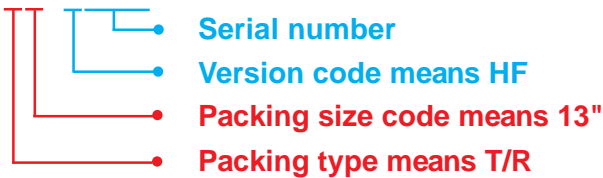
BZX584B5V1_R1_00001

BZX584B5V1_R2_00001

For example :

RB500V-40_R2_00001

Part No.



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



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