

BZX584B2V4 ~ BZX584B75 Series

Surface Mount Silicon Zener Diodes

VOLTAGE	2.4~75 Volt	POWER	200 mWatt
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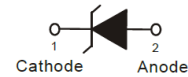
FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx weight: 0.0014 grams

SOD-523



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

NOTES :

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

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Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{TT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
BZX584B2V4	2.4	2.35	2.45	100	5	600	1	50	1	W1
BZX584B2V7	2.7	2.65	2.75	100	5	600	1	20	1	W2
BZX584B3	3	2.94	3.06	95	5	600	1	10	1	W3
BZX584B3V3	3.3	3.23	3.37	95	5	600	1	5	1	W4
BZX584B3V6	3.6	3.52	3.67	90	5	600	1	5	1	W5
BZX584B3V9	3.9	3.82	3.98	90	5	600	1	3	1	W6
BZX584B4V3	4.3	4.21	4.39	90	5	600	1	3	1	W7
BZX584B4V7	4.7	4.61	4.79	80	5	500	1	3	2	W8
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
BZX584B6V2	6.2	6.08	6.32	10	5	150	1	3	4	WB
BZX584B6V8	6.8	6.66	6.94	15	5	80	1	2	4	WC
BZX584B7V5	7.5	7.35	7.65	15	5	80	1	1	5	WD
BZX584B8V2	8.2	8.04	8.36	15	5	80	1	0.7	5	WE
BZX584B9V1	9.1	8.92	9.28	15	5	100	1	0.5	6	WF
BZX584B10	10	9.8	10.2	20	5	150	1	0.2	7	WG
BZX584B11	11	10.78	11.22	20	5	150	1	0.1	8	WH
BZX584B12	12	11.76	12.24	25	5	150	1	0.1	8	WI
BZX584B13	13	12.74	13.26	30	5	170	1	0.1	8	WK
BZX584B15	15	14.7	15.3	30	5	200	1	0.1	10.5	WL
BZX584B16	16	15.68	16.32	40	5	200	1	0.1	11.2	WM
BZX584B18	18	17.64	18.36	45	5	225	1	0.1	12.6	WN
BZX584B20	20	19.6	20.4	55	5	225	1	0.1	14	WO
BZX584B22	22	21.56	22.44	55	5	250	1	0.1	15.4	WP
BZX584B24	24	23.52	24.48	70	5	250	1	0.1	16.8	WR
BZX584B27	27	26.46	27.54	80	5	300	1	0.1	18.9	WS
BZX584B30	30	29.4	30.6	80	5	300	1	0.1	21	WT
BZX584B33	33	32.34	33.66	80	5	325	1	0.1	23.1	WU
BZX584B36	36	35.28	36.72	90	5	350	1	0.1	25.2	WW
BZX584B39	39	38.22	39.78	130	5	350	1	0.1	27.3	WX
BZX584B43	43	42.14	43.86	150	5	375	1	0.1	30.1	WY
BZX584B47	47	46.06	47.94	170	5	375	1	0.1	32.9	WZ
BZX584B51	51	49.98	52.02	100	5	400	1	0.1	38	XA
BZX584B56	56	54.88	57.12	135	2.5	1000	1	0.1	42	X2
BZX584B62	62	60.76	63.24	150	2.5	1000	1	0.1	46	X3
BZX584B68	68	66.64	69.36	200	2.5	1000	1	0.1	51	X4
BZX584B75	75	73.5	76.5	250	2.5	1000	1	0.1	56	X5

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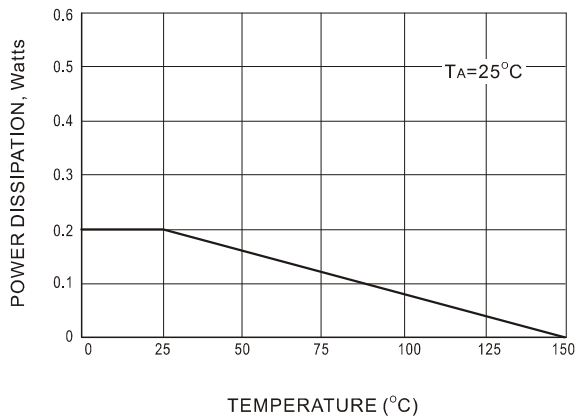


Fig.1 STEADY STATE POWER DERATING

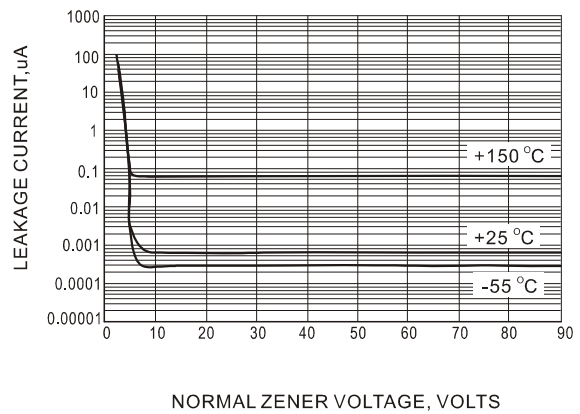


Fig.2 TYPICAL LEAKAGE CURRENT

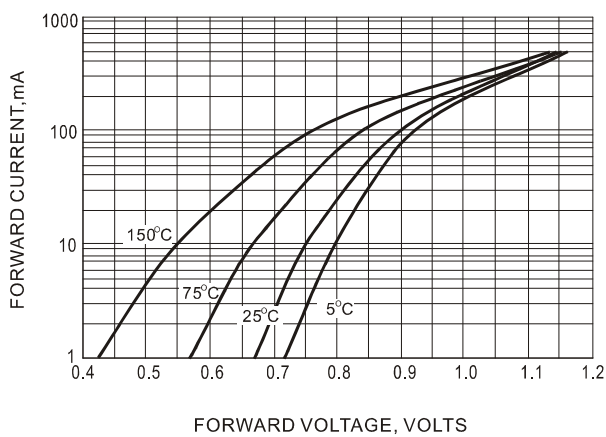


Fig.3 TYPICAL FORWARD VOLTAGE

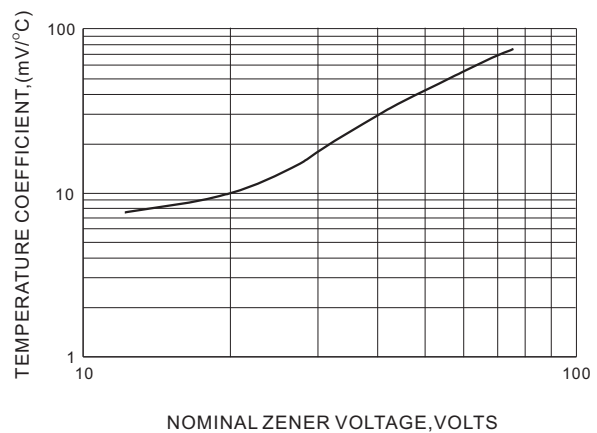


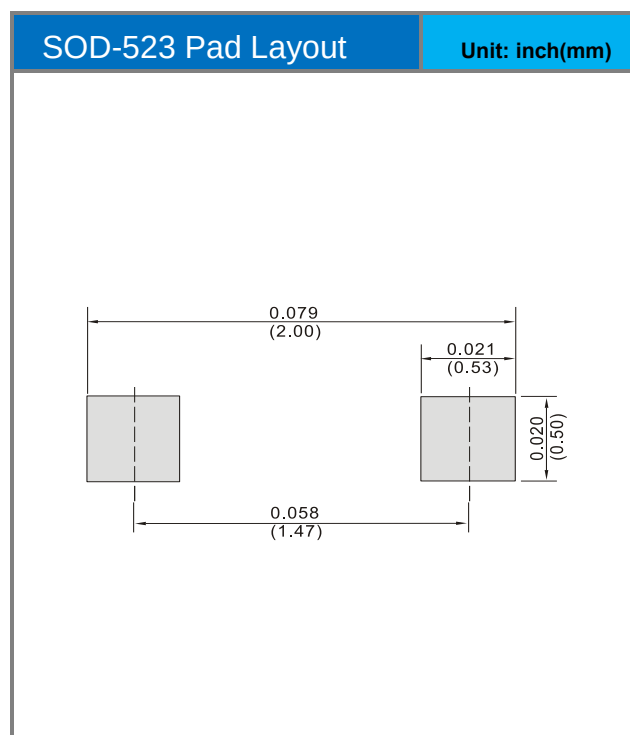
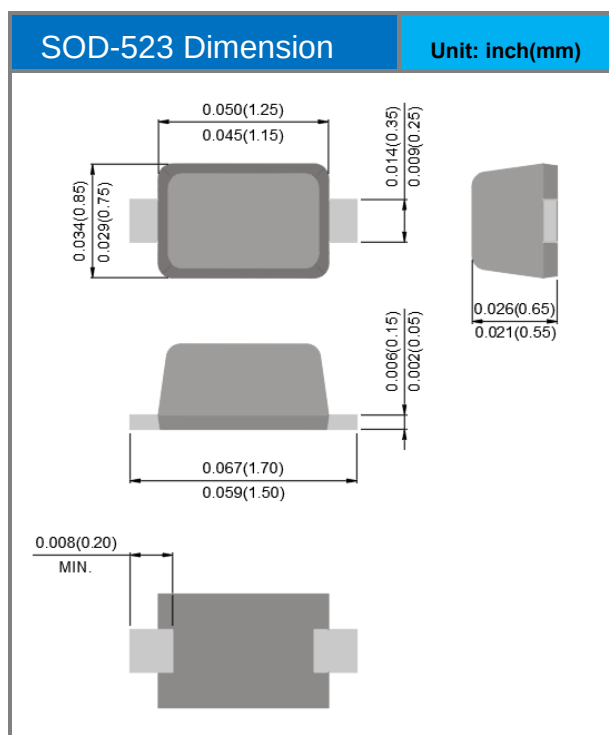
Fig.4 TEMPERATURE COEFFICIENTS

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BZX584BxVx	SOD-523	5K pcs / 7" reel	See Table
BZX584BxVx	SOD-523	12K pcs / 13" reel	See Table

Packaging Information & Mounting Pad Layout



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