

# BZX584C2V4-AU SERIES

## SURFACE MOUNT SILICON ZENER DIODES

**VOLTAGE** 2.4 to 75 Volt **POWER** 200 mWatt

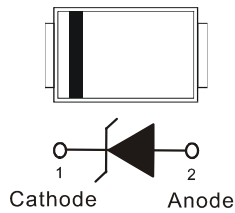
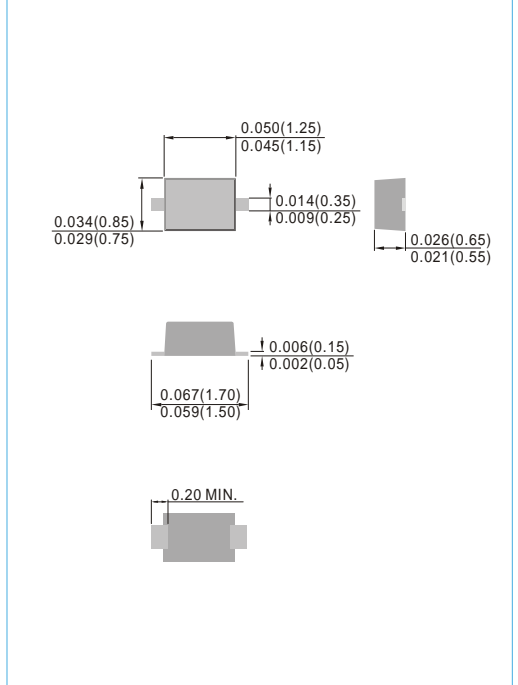
**SOD-523** Unit : inch(mm)

### FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Zener Voltages from 2.4V~75V
- 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, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Standard packaging: 8mm tape
- Approx. Weight: 0.00005 ounces, 0.00143 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation @ $T_A=25^{\circ}\text{C}$ (Note A)	$P_D$	200	mW
Operating Junction and Storage Temperature Range	$T_J$	-55 to +150	$^{\circ}\text{C}$

### NOTES :

A. Mounted on 100cm<sup>2</sup>(1mm thick) copper areas.

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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	uA	V	
BZX584C2V4-AU	2.4	2.28	2.52	100	5.0	600	1.00	50	1.0	W1
BZX584C2V7-AU	2.7	2.57	2.84	100	5.0	600	1.00	20	1.0	W2
BZX584C3-AU	3	2.85	3.15	95	5.0	600	1.00	10	1.0	W3
BZX584C3V3-AU	3.3	3.14	3.47	95	5.0	600	1.00	5.0	1.0	W4
BZX584C3V6-AU	3.6	3.42	3.78	90	5.0	600	1.00	5.0	1.0	W5
BZX584C3V9-AU	3.9	3.71	4.10	90	5.0	600	1.00	3.0	1.0	W6
BZX584C4V3-AU	4.3	4.09	4.52	90	5.0	600	1.00	3.0	1.0	W7
BZX584C4V7-AU	4.7	4.47	4.94	80	5.0	500	1.00	3.0	2.0	W8
BZX584C5V1-AU	5.1	4.85	5.36	60	5.0	480	1.00	2.0	2.0	W9
BZX584C5V6-AU	5.6	5.32	5.88	40	5.0	400	1.00	1.0	2.0	WA
BZX584C6V2-AU	6.2	5.89	6.51	10	5.0	150	1.00	3.0	4.0	WB
BZX584C6V8-AU	6.8	6.46	7.14	15	5.0	80	1.00	2.0	4.0	WC
BZX584C7V5-AU	7.5	7.13	7.88	15	5.0	80	1.00	1.0	5.0	WD
BZX584C8V2-AU	8.2	7.79	8.61	15	5.0	80	1.00	0.7	5.0	WE
BZX584C8V7-AU	8.7	8.27	9.14	15	5.0	100	1.00	0.7	5.0	3C
BZX584C9V1-AU	9.1	8.65	9.56	15	5.0	100	1.00	0.5	6.0	WF
BZX584C10-AU	10	9.50	10.50	20	5.0	150	1.00	0.2	7.0	WG
BZX584C11-AU	11	10.45	11.55	20	5.0	150	1.00	0.1	8.0	WH
BZX584C12-AU	12	11.40	12.60	25	5.0	150	1.00	0.1	8.0	WI
BZX584C13-AU	13	12.35	13.65	30	5.0	170	1.00	0.1	8.0	WK
BZX584C14-AU	14	13.30	14.70	30	5.0	170	1.00	0.1	10.00	WJ
BZX584C15-AU	15	14.25	15.75	30	5.0	200	1.00	0.1	10.50	WL
BZX584C16-AU	16	15.20	16.80	40	5.0	200	1.00	0.1	11.20	WM
BZX584C17-AU	17	16.15	17.85	40	5.0	200	1.00	0.1	12.20	4C
BZX584C18-AU	18	17.10	18.90	45	5.0	225	1.00	0.1	12.60	WN
BZX584C20-AU	20	19.00	21.00	55	5.0	225	1.00	0.1	14.00	WO
BZX584C22-AU	22	20.90	23.10	55	5.0	250	1.00	0.1	15.40	WP
BZX584C24-AU	24	22.80	25.20	70	5.0	250	1.00	0.1	16.80	WR
BZX584C27-AU	27	25.65	28.35	80	5.0	300	1.00	0.1	18.90	WS
BZX584C28-AU	28	26.60	29.40	80	5.0	300	1.00	0.1	20.50	5C
BZX584C30-AU	30	28.50	31.50	80	5.0	300	1.00	0.1	21.00	WT
BZX584C33-AU	33	31.35	34.65	80	5.0	325	1.00	0.1	23.10	WU
BZX584C36-AU	36	34.20	37.80	90	5.0	350	1.00	0.1	25.20	WW
BZX584C39-AU	39	37.05	40.95	130	5.0	350	1.00	0.1	27.30	WX
BZX584C43-AU	43	40.85	45.15	150	5.0	375	1.00	0.1	30.10	WY
BZX584C47-AU	47	44.65	49.35	170	5.0	375	1.00	0.1	32.90	WZ
BZX584C51-AU	51	48.45	53.55	100	5.0	400	1.00	0.1	38.00	XA
BZX584C56-AU	56	53.20	58.80	135	2.5	1000	1.00	0.1	42.00	X2
BZX584C62-AU	62	58.90	65.10	150	2.5	1000	1.00	0.1	46.00	X3
BZX584C68-AU	68	64.60	71.40	200	2.5	1000	1.00	0.1	51.00	X4
BZX584C75-AU	75	71.25	78.75	250	2.5	1000	1.00	0.1	56.00	X5

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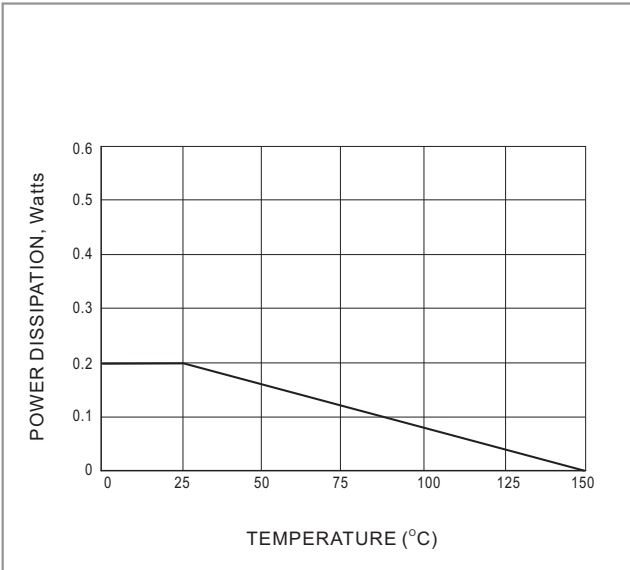


Fig.1 STEADY STATE POWER DERATING

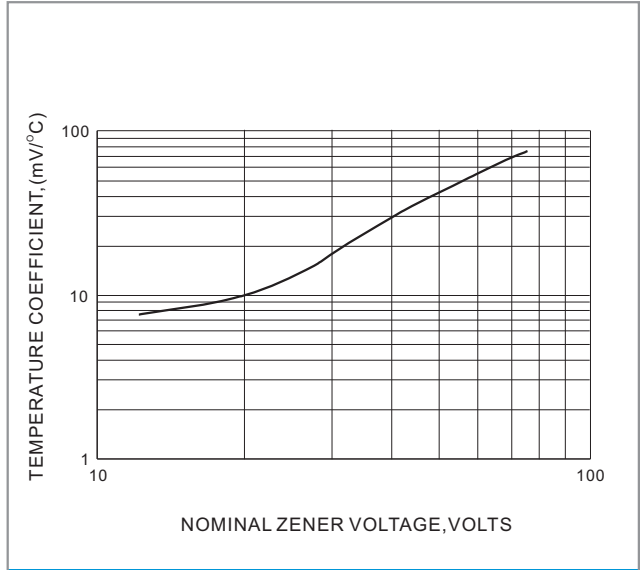


Fig.2 TEMPERATURE COEFFICIENTS

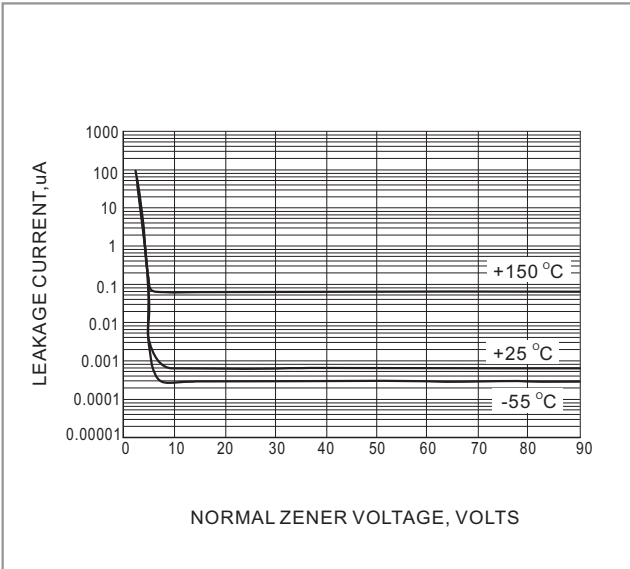


Fig.3 TYPICAL LEAKAGE CURRENT

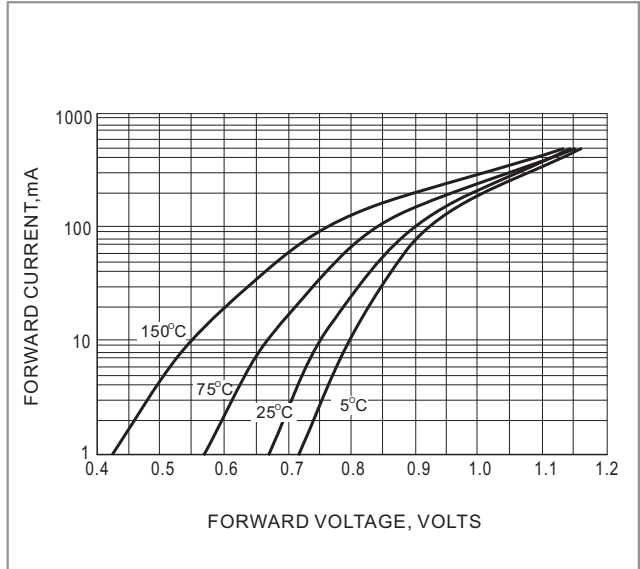


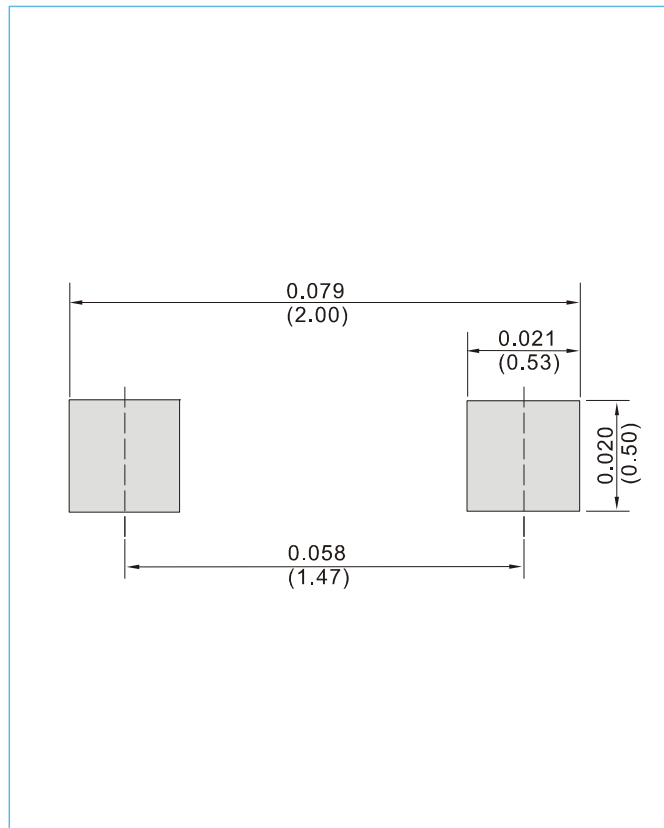
Fig.4 TYPICAL FORWARD VOLTAGE

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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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