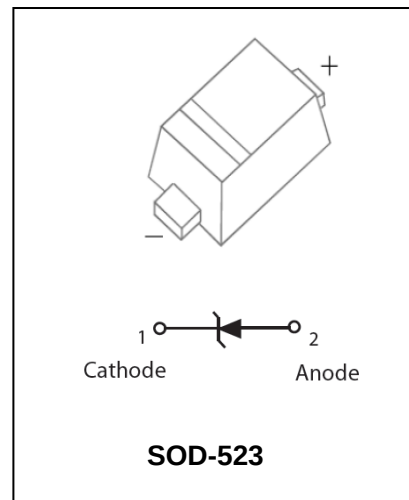


FEATURES

- Miniaturized package size for high density applications
- 5% high precision regulated voltage stability
- High reliability chip and packaging process

APPLICATIONS

- Mobile phone
- Portable device
- High precision computer motherboard



ORDERING INFORMATION

Type No.	Marking	Package Code
BZX584C2V4-BZX584C75	See Page2-3	SOD-523

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward Voltage @ I _F =10mA	V _F	0.85	V
Power Dissipation①	P _d	150	mW
Thermal resistance,junction to ambient air ①	R _{θJA}	883	℃/W
Thermal resistance,junction to ambient air ②	R _{θJA}	623	℃/W
Junction temperature	T _j	150	℃
Storage temperature range	T _{stg}	-55~150	℃

Notes: 1. FR-5=1.0x0.75x0.62 in.

2. Alumina=0.4x0.3x0.024 in.,99.5% alumina

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

DEVICE	Marking	VZ(V) @ IZ=5mA			ZZ @ IZ = 1 mA	ZZ @ IZ = 5 mA	ZZ @ IZ = 20mA	IR@VR	VR	Typical Temperature Coefficient(mV/°C)@ IZ=5mA	
		MIN	NOM	MAX	(Ω)	(Ω)	(Ω)	(uA)	V	Min	Max
BZX584C2V4	Z11	2.28	2.4	2.52	570	95	47.5	40	1	-3.5	0
BZX584C2V7	Z12	2.57	2.7	2.84	570	95	47.5	16	1	-3.5	0
BZX584C3V0	Z13	2.85	3	3.15	570	90	47.5	8	1	-3.5	0
BZX584C3V3	Z14	3.14	3.3	3.47	570	90	38	4	1	-3.5	0
BZX584C3V6	Z15	3.42	3.6	3.78	570	85	38	4	1	-3.5	0
BZX584C3V9	Z16	3.72	3.9	4.08	570	85	28.5	2.4	1	-3.5	0
BZX584C4V3	Z17	4.09	4.3	4.52	570	85	28.5	2.4	1	-3.5	0
BZX584C4V7	Z1	4.47	4.7	4.94	475	75	14	2.4	2	-3.5	0.2
BZX584C5V1	Z2	4.85	5.1	5.36	455	57	14	1.6	2	-2.7	1.2
BZX584C5V6	Z3	5.32	5.6	5.88	380	38	9.5	0.8	2	-2	2.5
BZX584C6V2	Z4	5.89	6.2	6.51	150	9.5	5.7	2.4	4	0.4	3.7
BZX584C6V8	Z5	6.46	6.8	7.14	76	14.2	5.7	1.6	4	1.2	4.5
BZX584C7V5	Z6	7.13	7.5	7.88	76	14.2	5.7	0.8	5	2.5	5.3
BZX584C8V2	Z7	7.79	8.2	8.61	76	14.2	5.7	0.56	5	3.2	6.2
BZX584C9V1	Z8	8.65	9.1	9.56	95	14.2	7.6	0.16	7	3.8	7.0
BZX584C10	Z9	9.50	10	10.50	142.5	19	9.5	0.08	8	4.5	8.0
BZX584C11	Y1	10.45	11	11.55	142.5	19	9.5	0.08	8	5.4	9.0
BZX584C12	Y2	11.4	12	12.60	150	23.7	9.5	0.08	8	6.0	10.0
BZX584C13	Y3	12.35	13	13.65	170	28.5	14.2	0.08	8	7.0	11.0
BZX584C15	Y4	14.25	15	15.75	190	28.5	19	0.04	11	9.2	13.0
BZX584C16	Y5	15.2	16	16.80	190	38	19	0.04	11	10.4	14.0
BZX584C18	Y6	17.10	18	18.90	213	42.7	19	0.04	13	12.4	16.0
BZX584C20	Y7	19.0	20	21.0	213	52.2	19	0.04	14	14.4	18.0
BZX584C22	Y8	20.9	22	23.10	237	52.2	23.7	0.04	15	16.4	20.0
BZX584C24	Y9	22.8	24	25.2	250	66.5	23.7	0.04	17	18.4	22.0

DEVICE	Marking	VZ(V) @ IZ=2mA			ZZ @ IZ = 0.5 mA	ZZ @ IZ = 2 mA	ZZ @ IZ = 10mA	IR@VR	VR	Typical Temperature Coefficient(mV/°C)@ IZ=2mA	
		MIN	NOM	MAX	(Ω)	(Ω)	(Ω)	(uA)	V	Min	Max
BZX584C27	Y10	25.65	27	28.35	295	75	43	0.04	19	21.4	25.3
BZX584C30	Y11	28.50	30	31.50	295	75	48	0.04	21	24.4	29.4
BZX584C33	Y12	31.35	33	34.65	320	75	53	0.04	23	27.4	33.4
BZX584C36	Y13	34.20	36	37.80	345	85	58	0.04	25	30.4	37.4
BZX584C39	Y14	37.05	39	40.95	345	125	68	0.04	27	33.4	41.2
BZX584C43	Y15	40.85	43	45.15	370	145	78	0.04	30	37.6	46.6
BZX584C47	V1	44.65	47	49.35	370	165	88	0.04	33	42.0	51.8
BZX584C51	V2	48.45	51	53.55	395	175	98	0.04	36	46.6	57.2
BZX584C56	V3	52.2	56	58.8	420	195	108	0.04	39	52.2	63.8
BZX584C62	V4	58.9	62	65.1	445	210	118	0.04	43	58.8	71.6
BZX584C68	V5	64.6	68	71.4	470	235	128	0.04	48	65.6	79.8
BZX584C75	V6	71.25	75	78.75	495	250	138	0.04	53	73.4	88.6

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified

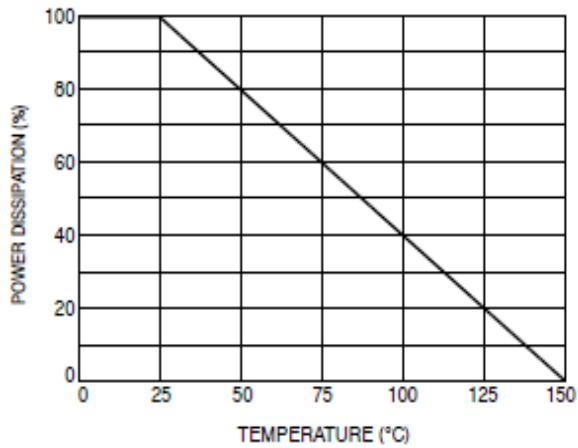


Fig.1 Power Dissipation vs Ambient Temperature

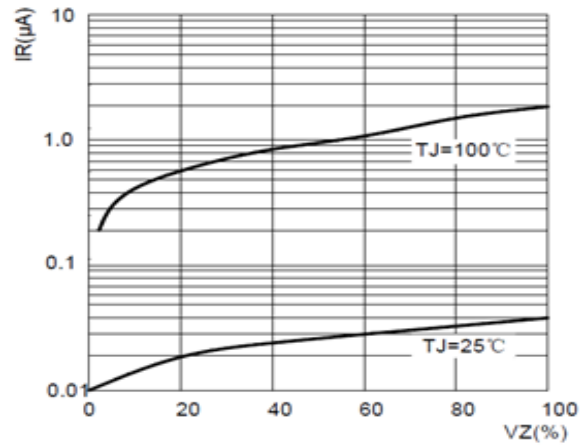


Fig.2 Typical reverse characteristics

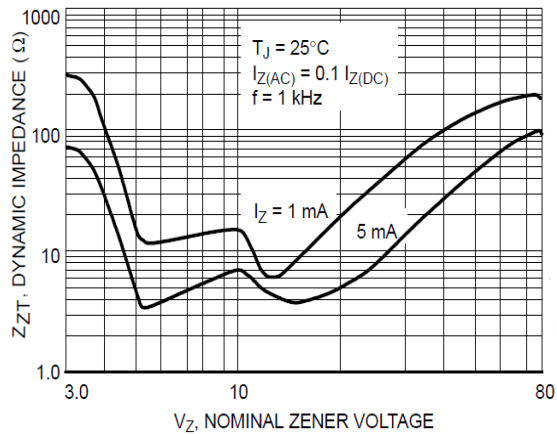


Fig.3 Characteristic curve of reverse voltage and impedance

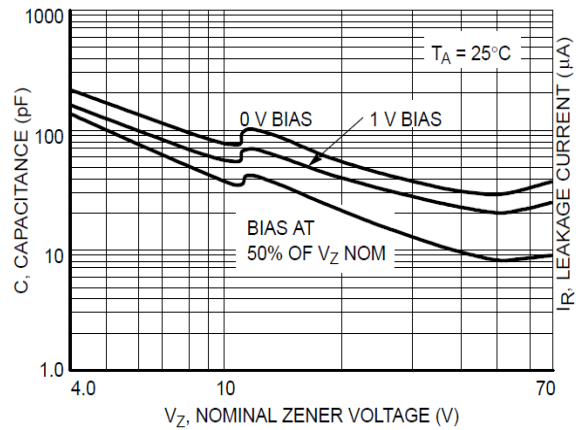
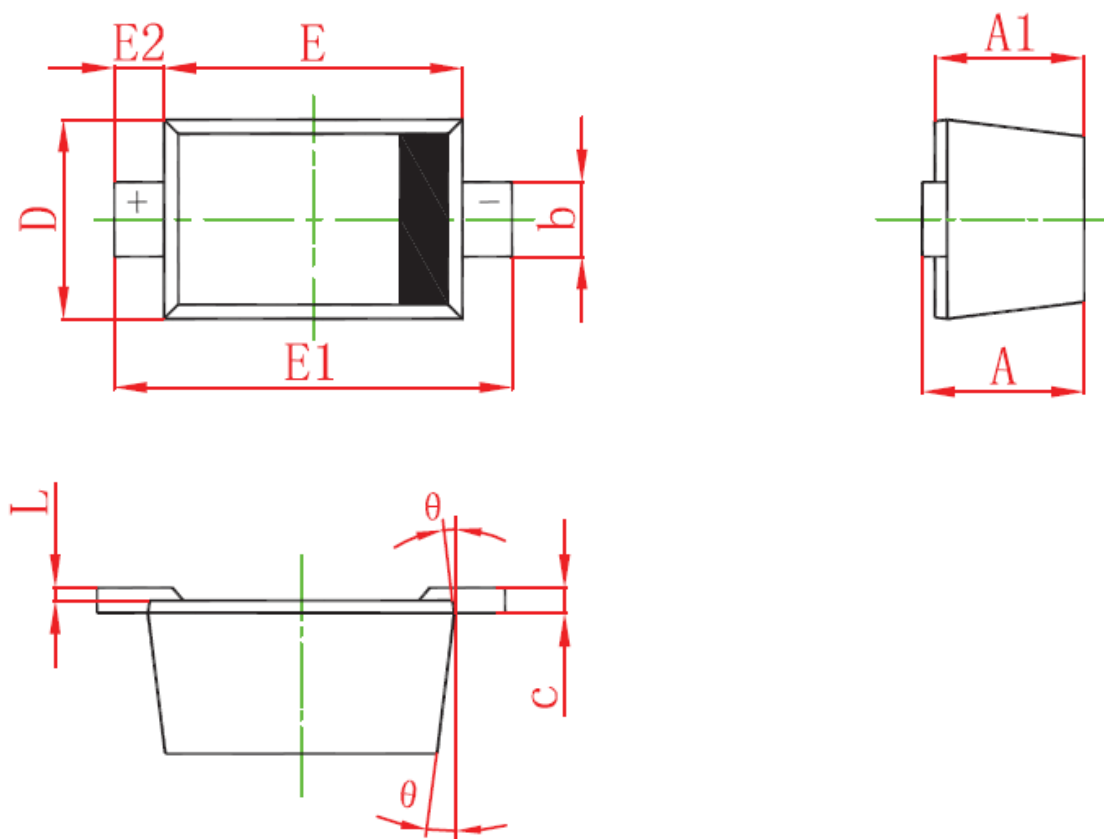


Fig.4 Typical capacitance characteristic curve

SOD-523 PACKAGE OUTLINE



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	

PACKAGE INFORMATION

Device	Package	Shipping
BZX584C2V4- BZX584C75	SOD-523	3000/Tape&Reel

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