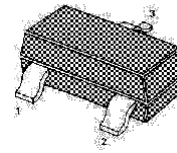


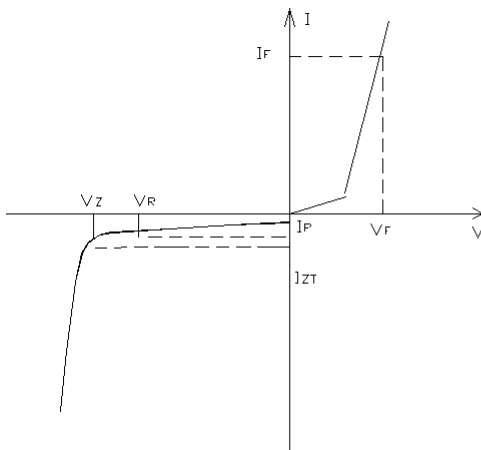
BZX84C...CC Series SILICON PLANAR ZENER DIODES

Features

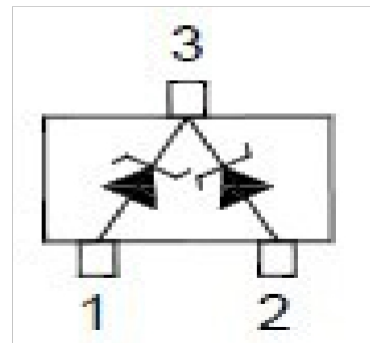
- Zener breakdown voltage range - 2.4 V to 75 V
- Package designed for optimal automated board assembly
- Small package size for high density applications



1. Cathode 2. Cathode 3. Anode
SOT-23 Plastic Package



Zener Voltage Regulation



Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	300	mW
Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	417	$^{\circ}\text{C/W}$
Junction and Storage Temperature Range	T_j, T_s	- 65 to + 150	$^{\circ}\text{C}$

¹⁾ Alumina = 0.4 X 0.3 X 0.024 in, 99.5% alumina

Characteristics at $T_a = 25^{\circ}\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10 \text{ mA}$	V_F	0.9	V

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted)

Type	Marking Code	Zener Voltage Range ¹⁾				Dynamic Resistance Max. (Ω)			Reverse Leakage Current	
		Min.	Nom.	Max.	I_{ZT} (mA)	Z_{ZT}	Z_{ZK}	I_{ZK} (mA)	I_R Max. (μA)	at V_R (V)
BZX84C2V4CC	JH	2.2	2.4	2.6	5	100	600	1	50	1
BZX84C2V7CC	JJ	2.5	2.7	2.9	5	100	600	1	20	1
BZX84C3V0CC	JK	2.8	3	3.2	5	95	600	1	10	1
BZX84C3V3CC	JM	3.1	3.3	3.5	5	95	600	1	5	1
BZX84C3V6CC	JN	3.4	3.6	3.8	5	90	600	1	5	1
BZX84C3V9CC	JP	3.7	3.9	4.1	5	90	600	1	3	1
BZX84C4V3CC	JR	4	4.3	4.6	5	90	600	1	3	1
BZX84C4V7CC	JX	4.4	4.7	5	5	80	500	1	3	2
BZX84C5V1CC	JY	4.8	5.1	5.4	5	60	480	1	2	2
BZX84C5V6CC	JZ	5.2	5.6	6	5	40	400	1	1	2
BZX84C6V2CC	KA	5.8	6.2	6.6	5	10	150	1	3	4
BZX84C6V8CC	KB	6.4	6.8	7.2	5	15	80	1	2	4
BZX84C7V5CC	KC	7	7.5	7.9	5	15	80	1	1	5
BZX84C8V2CC	KD	7.7	8.2	8.7	5	15	80	1	0.7	5
BZX84C9V1CC	KE	8.5	9.1	9.6	5	15	100	1	0.5	6
BZX84C10CC	KF	9.4	10	10.6	5	20	150	1	0.2	7
BZX84C11CC	KH	10.4	11	11.6	5	20	150	1	0.1	8
BZX84C12CC	KJ	11.4	12	12.7	5	25	150	1	0.1	8
BZX84C13CC	KK	12.4	13	14.1	5	30	170	1	0.1	8
BZX84C15CC	KM	14.3	15	15.8	5	30	200	1	0.05	10.5
BZX84C16CC	KN	15.3	16	17.1	5	40	200	1	0.05	11.2
BZX84C18CC	KP	16.8	18	19.1	5	45	225	1	0.05	12.6
BZX84C20CC	KR	18.8	20	21.2	5	55	225	1	0.05	14
BZX84C22CC	KX	20.8	22	23.3	5	55	250	1	0.05	15.4
BZX84C24CC	KY	22.8	24	25.6	5	70	250	1	0.05	16.8
BZX84C27CC	KZ	25.1	27	28.9	2	80	300	0.5	0.05	18.9
BZX84C30CC	MA	28	30	32	2	80	300	0.5	0.05	21
BZX84C33CC	MB	31	33	35	2	80	325	0.5	0.05	23.1
BZX84C36CC	MC	34	36	38	2	90	350	0.5	0.05	25.2
BZX84C39CC	MD	37	39	41	2	130	350	0.5	0.05	27.3
BZX84C43CC	ME	40	43	46	2	150	375	0.5	0.05	30.1
BZX84C47CC	MF	44	47	50	2	170	375	0.5	0.05	32.9
BZX84C51CC	MH	48	51	54	2	180	400	0.5	0.05	35.7
BZX84C56CC	MJ	52	56	60	2	200	425	0.5	0.05	39.2
BZX84C62CC	MK	58	62	66	2	215	450	0.5	0.05	43.4
BZX84C68CC	MM	64	68	72	2	240	475	0.5	0.05	47.6
BZX84C75CC	MN	70	75	79	2	255	500	0.5	0.05	52.5

¹⁾ Tested with pulses $t_p = 20$ ms.

Typical Characteristics

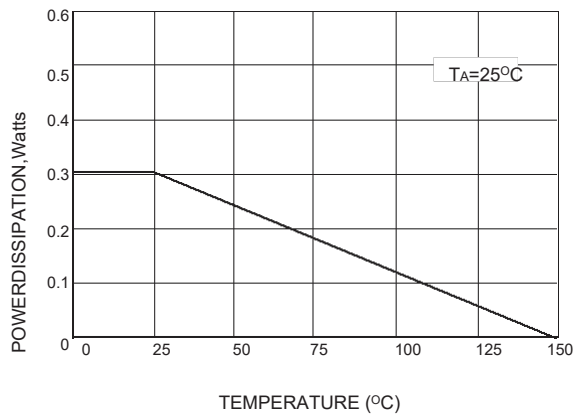


Fig.1 STEADY STATE POWER DERATING

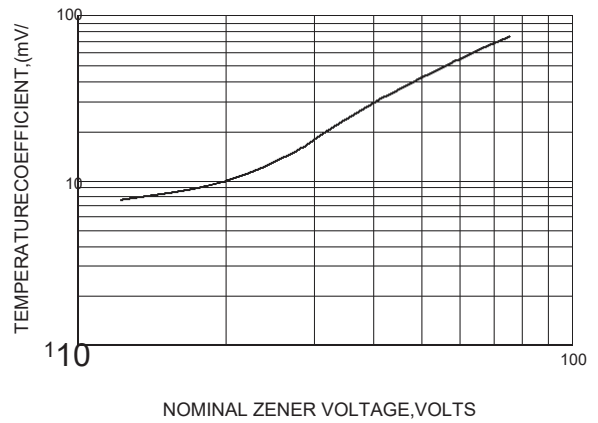


Fig.2 TEMPERATURE COEFFICIENTS

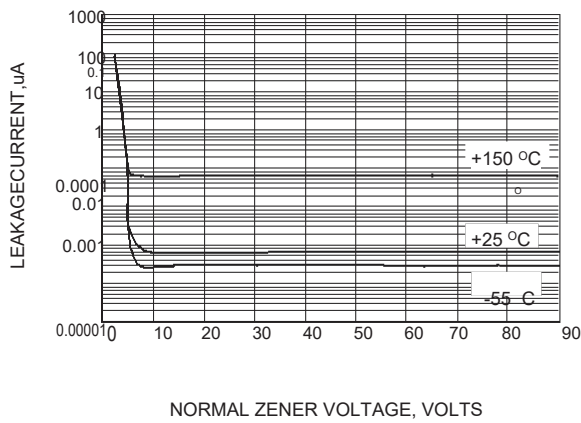


Fig.3 TYPICAL LEAKAGE CURRENT

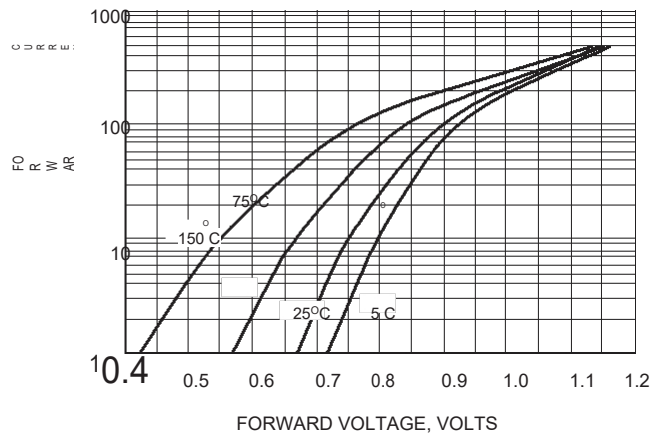


Fig.4 TYPICAL FORWARD VOLTAGE

PACKAGE OUTLINE

Plastic surface mounted package; 3 leads

SOT-23

