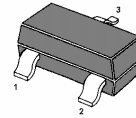
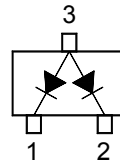


BZX84C...CA Series

SILICON PLANAR ZENER DIODES



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

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

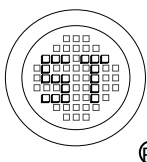
Parameter	Symbol	Value	Unit
Total Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient ¹⁾	$R_{\theta JA}$	417	$^\circ\text{C/W}$
Operating Junction and Storage Temperature Range	T_j, T_s	- 65 to + 150	$^\circ\text{C}$

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

Electrical Characteristics ($T_a = 25^\circ\text{C}$ unless otherwise noted, $V_F < 0.9\text{ V}$ at $I_F = 10\text{ mA}$)

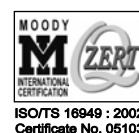
Type	Marking Code	Zener Voltage Range ¹⁾		Dynamic Resistance			Reverse Leakage Current		Maximum Zener Current
		I_{ZT} mA	for V_{ZT} V	r_{ZJT} Ω	r_{ZJK} at Ω	I_{ZK} mA	I_R at μA	V_R V	I_{ZM} mA
BZX84C3V0CA	MR	5	2.8...3.2	< 100	< 600	1	< 4	1	109
BZX84C3V3CA	MX	5	3.1...3.5	< 95	< 600	1	< 2	1	100
BZX84C3V6CA	MY	5	3.4...3.8	< 95	< 600	1	< 2	1	92
BZX84C3V9CA	MZ	5	3.7...4.1	< 90	< 600	1	< 2	1	85
BZX84C4V3CA	NA	5	4...4.6	< 90	< 600	1	< 1	1	76
BZX84C4V7CA	NB	5	4.4...5	< 80	< 500	1	< 3	2	70
BZX84C5V1CA	NC	5	4.8...5.4	< 60	< 480	1	< 2	2	65
BZX84C5V6CA	ND	5	5.2...6	< 40	< 400	1	< 1	2	58
BZX84C6V2CA	NE	5	5.8...6.6	< 10	< 150	1	< 3	4	53
BZX84C6V8CA	NF	5	6.4...7.2	< 10	< 80	1	< 2	4	49
BZX84C7V5CA	NH	5	7...7.9	< 10	< 80	1	< 1	5	44
BZX84C8V2CA	NJ	5	7.7...8.7	< 10	< 80	1	< 0.7	5	40
BZX84C9V1CA	NK	5	8.5...9.6	< 15	< 100	1	< 0.5	6	36
BZX84C10CA	NM	5	9.4...10.6	< 20	< 150	1	< 0.2	7	33
BZX84C11CA	NN	5	10.4...11.6	< 20	< 150	1	< 0.1	8	30
BZX84C12CA	NP	5	11.4...12.7	< 25	< 150	1	< 0.1	8	28
BZX84C13CA	NX	5	12.4...14.1	< 30	< 170	1	< 0.1	8	25
BZX84C15CA	NY	5	13.8...15.6	< 30	< 200	1	< 0.05	10	22
BZX84C16CA	NZ	5	15.3...17.1	< 40	< 200	1	< 0.05	11	20
BZX84C18CA	PA	5	16.8...19.1	< 50	< 225	1	< 0.05	13	18
BZX84C20CA	PB	5	18.8...21.2	< 50	< 225	1	< 0.05	14	17
BZX84C22CA	PC	5	20.8...23.3	< 55	< 250	1	< 0.05	15	15
BZX84C24CA	PD	5	22.8...25.6	< 80	< 250	1	< 0.05	17	14
BZX84C27CA	PE	2	25.1...28.9	< 80	< 300	0.5	< 0.05	19	12
BZX84C30CA	PF	2	28...32	< 80	< 300	0.5	< 0.05	21	11
BZX84C33CA	PH	2	31...35	< 80	< 325	0.5	< 0.05	23	10
BZX84C36CA	PJ	2	34...38	< 90	< 350	0.5	< 0.05	25	9
BZX84C39CA	PM	2	37...41	< 90	< 350	0.5	< 0.05	27	9
BZX84C43CA	PN	2	40...46	< 100	< 375	0.5	< 0.05	30	8
BZX84C47CA	PP	2	44...50	< 100	< 375	0.5	< 0.05	33	7

¹⁾ Tested with pulses $t_p = 20\text{ ms}$.



SEMTECH ELECTRONICS LTD.

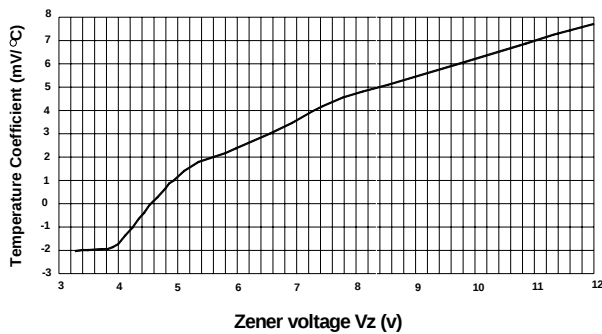
(Subsidiary of Semtech International Holdings Limited, a company
listed on the Hong Kong Stock Exchange, Stock Code: 724)



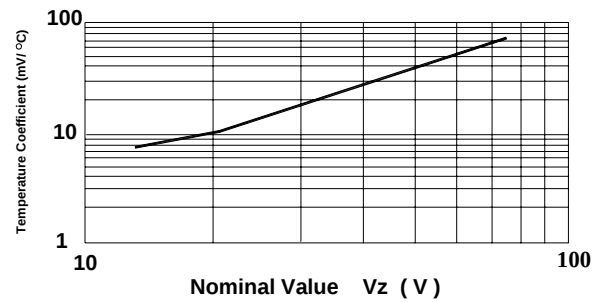
Dated : 02/07/2006

BZX84C...CA Series

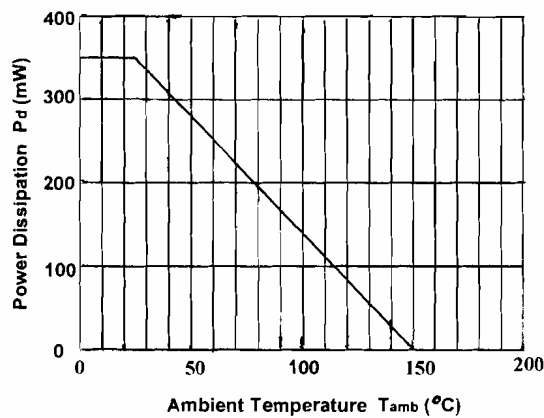
Temperature Coefficient



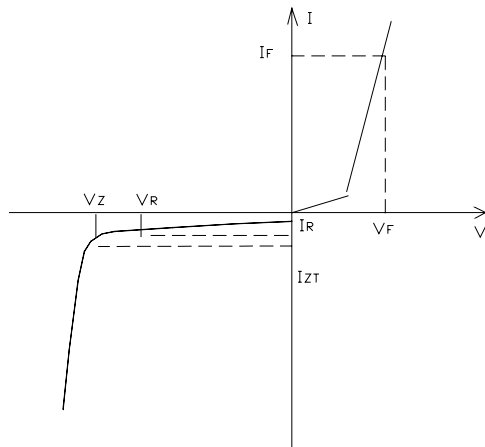
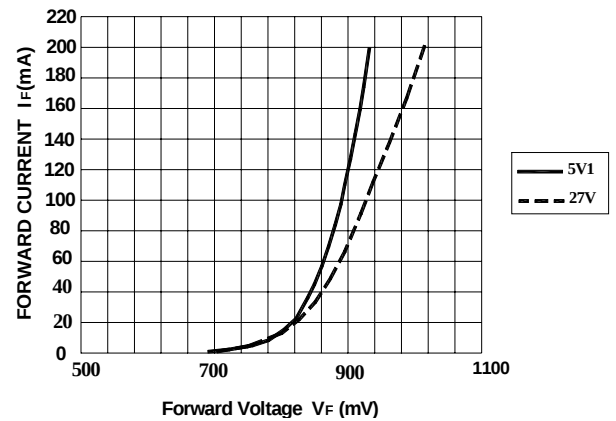
Temperature Coefficient



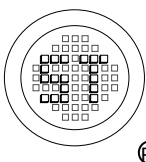
Power Derating Curve



Typical Forward Voltage

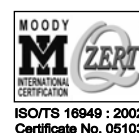


Zener Voltage Regulator



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 02/07/2006