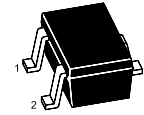
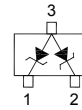


SILICON PLANAR ZENER DIODES



SOT-323 Plastic Package
1. Cathode 2. Cathode 3. Anode

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

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	200	mW
Operating Junction and Storage Temperature Range	T_j, T_s	- 55 to + 150	$^\circ\text{C}$

Electrical Characteristics at $T_a = 25\text{ }^\circ\text{C}$ ($V_F = 0.9\text{ V Max. at } I_F = 10\text{ mA}$)

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Resistance				Reverse Current	
		V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R
		Min.(V)	Max.(V)	mA	Max.(Ω)	mA	Max.(Ω)	mA	Max.(μA)	V
BZX84C2V4CAW	BE	2.2	2.6	5	100	5	600	1	50	1
BZX84C2V7CAW	BF	2.5	2.9	5	100	5	600	1	20	1
BZX84C3V0CAW	BH	2.8	3.2	5	95	5	600	1	20	1
BZX84C3V3CAW	BJ	3.1	3.5	5	95	5	600	1	5	1
BZX84C3V6CAW	BK	3.4	3.8	5	90	5	600	1	5	1
BZX84C3V9CAW	BM	3.7	4.1	5	90	5	600	1	3	1
BZX84C4V3CAW	BN	4	4.6	5	90	5	600	1	3	1
BZX84C4V7CAW	BP	4.4	5	5	80	5	600	1	3	2
BZX84C5V1CAW	BR	4.8	5.4	5	60	5	500	1	2	2
BZX84C5V6CAW	BX	5.2	6	5	40	5	480	1	1	2
BZX84C6V2CAW	BY	5.8	6.6	5	10	5	400	1	3	4
BZX84C6V8CAW	BZ	6.4	7.2	5	15	5	150	1	2	4
BZX84C7V5CAW	CA	7	7.9	5	15	5	80	1	1	5
BZX84C8V2CAW	CB	7.7	8.7	5	15	5	80	1	0.7	5
BZX84C9V1CAW	CC	8.5	9.6	5	15	5	80	1	0.5	6
BZX84C10CAW	CD	9.4	10.6	5	20	5	100	1	0.2	7
BZX84C11CAW	CE	10.4	11.6	5	20	5	150	1	0.1	8
BZX84C12CAW	CF	11.4	12.7	5	25	5	150	1	0.1	8
BZX84C13CAW	CH	12.4	14.1	5	30	5	150	1	0.1	8
BZX84C15CAW	CJ	13.8	15.6	5	30	5	170	1	0.1	10.5
BZX84C16CAW	CK	15.3	17.1	5	40	5	200	1	0.1	11.2
BZX84C18CAW	CM	16.8	19.1	5	45	5	200	1	0.1	12.6
BZX84C20CAW	CN	18.8	21.2	5	55	5	225	1	0.1	14
BZX84C22CAW	CP	20.8	23.3	5	55	5	225	1	0.1	15.4
BZX84C24CAW	CR	22.8	25.6	5	70	5	250	1	0.1	16.8
BZX84C27CAW	CX	25.1	28.9	2	80	2	250	0.5	0.1	18.9
BZX84C30CAW	CY	28	32	2	80	2	300	0.5	0.1	21
BZX84C33CAW	CZ	31	35	2	80	2	300	0.5	0.1	23.1
BZX84C36CAW	DE	34	38	2	90	2	325	0.5	0.1	25.2
BZX84C39CAW	DF	37	41	2	130	2	350	0.5	0.1	27.3

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

Electrical Characteristics at $T_a = 25\text{ }^\circ\text{C}$ ($V_F = 0.9\text{ V}$ Max. at $I_F = 10\text{ mA}$)

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Resistance				Reverse Current	
		V_Z		at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}	I_R	at V_R
		Min.(V)	Max.(V)	mA	Max.(Ω)	mA	Max.(Ω)	mA	Max.(μA)	V
BZX84C43CAW	DH	40	46	2	150	2	375	0.5	0.1	30.1
BZX84C47CAW	DJ	44	50	2	170	2	375	0.5	0.1	32.9
BZX84C51CAW	DK	48	54	2	180	2	400	0.5	0.1	35.7
BZX84C56CAW	DM	52	60	2	200	2	425	0.5	0.1	39.2
BZX84C62CAW	DN	58	66	2	215	2	450	0.5	0.1	43.4
BZX84C68CAW	DP	64	72	2	240	2	475	0.5	0.1	47.6
BZX84C75CAW	DR	70	79	2	255	2	500	0.5	0.1	52.5

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

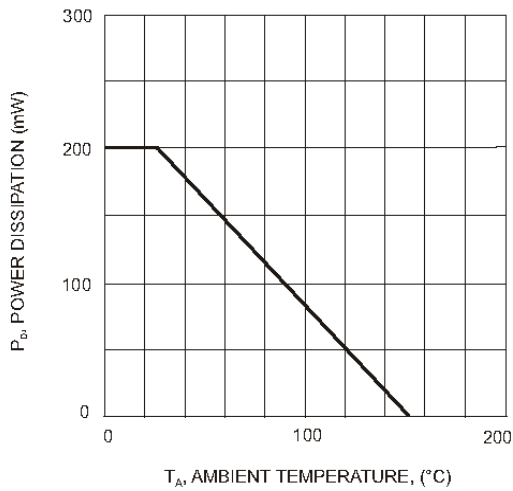


Fig. 1. Power Derating Curve

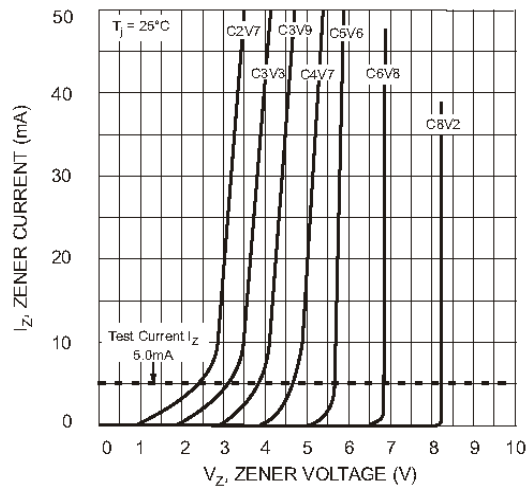


Fig. 2. Zener Breakdown Characteristics

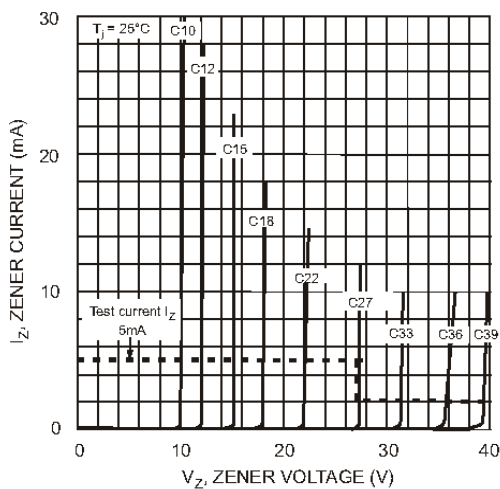


Fig. 3. Zener Breakdown Characteristics

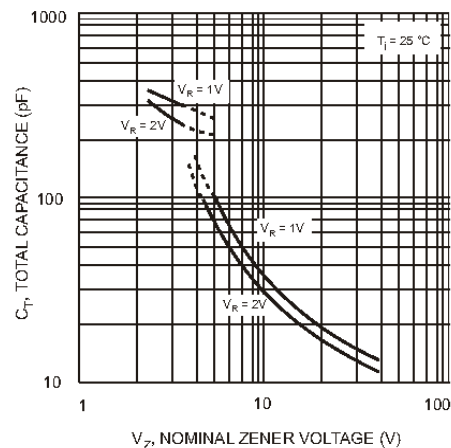


Fig. 4. Total Capacitance vs Nominal Zener Voltage