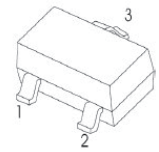
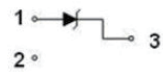
0.30W SILICON PLANAR ZENER DIODES

FEATURES

- Zener breakdown voltage range 2.4V to 75V
- Package designed for optimal automated board assembly
- Small package size for high density applications
- High temperature soldering guaranteed:260℃/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC

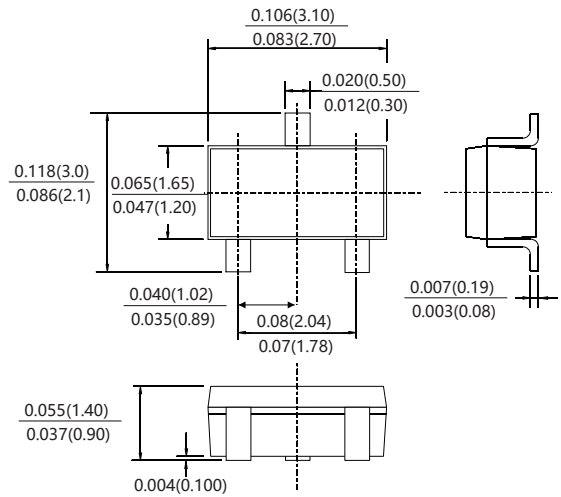
SOT-23





MECHANICAL DATA

- Case: SOT-23 plastic case
- Weight: Approw. 8.8mg



Dimensions in inches and (millimeters)

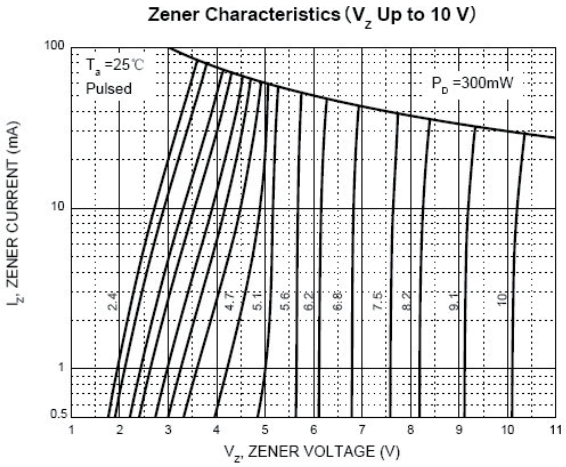
ABSOLUTE MAXIMUM RATINGS (T_A=25℃)

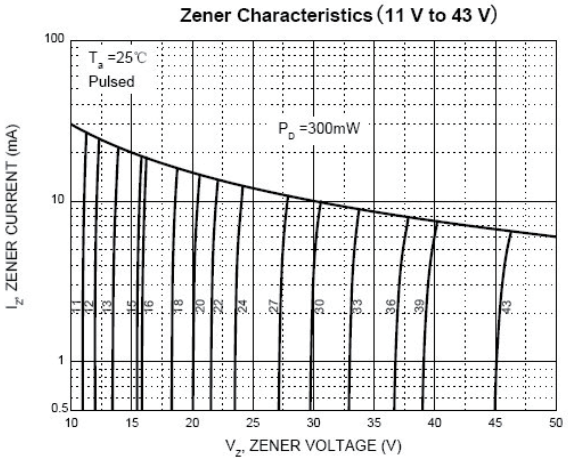
Parameters	*Symbols*	*Value*	*Units*
Total Power dissipation	P_D	300	mW
Thermal Resistance,Junction to Ambient[1)]	$R_{\theta JA}$	417	℃/W
Junction temperature	T_J	150	℃
Storage temperature range	T_{STG}	-65 to+150	℃
1) Alumina=0.4×0.3×0.024 in,99.5% alumina			

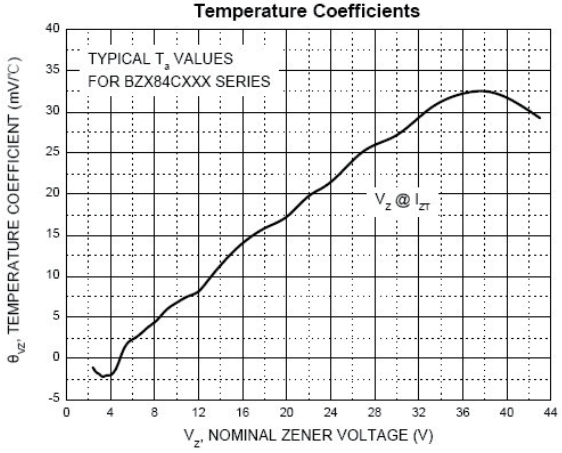
Electrical Characteristics(T_a = 25°C unless otherwise noted, V_F <0.9V at I_F = 10mA)

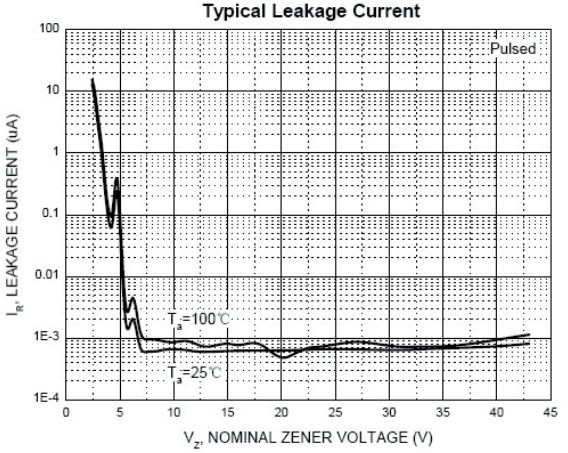
Device	Marking	Zener Voltage Range Vz			Maximum Zenner Impedance			Reverse Current Ir		Temperature Coefficient of Zener voltage @Izt=5mA mV/℃	
					Zzt	Zzk					
		Min	Max	Izt	Max	Max	Izk	Max	VR		
		(V)	(V)	mA	Ω	Ω	mA	uA	V	Min	Max
BZX84C 2V4	Z11	2.20	2.60	5	100	600	1.0	50.0	1.0	-3.5	0.0
BZX84C 2V7	Z12	2.50	2.90	5	100	600	1.0	20.0	1.0	-3.5	0.0
BZX84C 3V0	Z13	2.80	3.20	5	95	600	1.0	10.0	1.0	-3.5	0.0
BZX84C 3V3	Z14	3.10	3.50	5	95	600	1.0	5.0	1.0	-3.5	0.0
BZX84C 3V6	Z15	3.40	3.80	5	90	600	1.0	5.0	1.0	-3.5	0.0
BZX84C 3V9	Z16	3.70	4.10	5	90	600	1.0	3.0	1.0	-3.5	0.0
BZX84C 4V3	Z17	4.00	4.60	5	90	600	1.0	3.0	1.0	-3.5	0.0
BZX84C 4V7	Z1	4.40	5.00	5	80	500	1.0	3.0	2.0	-3.5	0.2
BZX84C 5V1	Z2	4.80	5.40	5	60	480	1.0	2.0	2.0	-2.7	1.2
BZX84C 5V6	Z3	5.20	6.00	5	40	400	1.0	1.0	2.0	-2.0	2.5
BZX84C 6V2	Z4	5.80	6.60	5	10	150	1.0	3.0	4.0	0.4	3.7
BZX84C 6V8	Z5	6.40	7.20	5	15	80	1.0	2.0	4.0	1.2	4.5
BZX84C 7V5	Z6	7.00	7.90	5	15	80	1.0	1.0	5.0	2.5	5.3
BZX84C 8V2	Z7	7.70	8.70	5	15	80	1.0	0.7	5.0	3.2	6.2
BZX84C 9V1	Z8	8.50	9.60	5	15	100	1.0	0.5	6.0	3.8	7.0
BZX84C 10	Z9	9.40	10.60	5	20	150	1.0	0.2	7.0	4.5	8.0
BZX84C 11	Y1•	10.40	11.60	5	20	150	1.0	0.1	8.0	5.4	9.0
BZX84C 12	Y2•	11.40	12.70	5	25	150	1.0	0.1	8.0	6.0	10.0
BZX84C 13	Y3	12.40	14.10	5	30	170	1.0	0.1	8.0	7.0	11.0
BZX84C 15	Y4	13.80	15.60	5	30	200	1.0	0.1	10.5	9.2	13.0
BZX84C 16	Y5	15.30	17.10	5	40	200	1.0	0.1	11.2	10.4	14.0
BZX84C 18	Y6•	16.80	19.10	5	45	225	1.0	0.1	12.6	12.4	16.0
BZX84C 20	Y7	18.80	21.20	5	55	225	1.0	0.1	14.0	14.4	18.0
BZX84C 22	Y8	20.80	23.30	5	55	250	1.0	0.1	15.4	16.4	20.0
BZX84C 24	Y9	22.80	25.60	5	70	250	1.0	0.1	16.8	18.4	22.0
BZX84C 27	Y10	25.10	28.90	2	80	300	0.5	0.1	18.9	21.4	25.3
BZX84C 30	Y11•	28.00	32.00	2	80	300	0.5	0.1	21.0	24.4	29.4
BZX84C 33	Y12	31.00	35.00	2	80	325	0.5	0.1	23.1	27.1	33.4
BZX84C 36	Y13	34.00	38.00	2	90	350	0.5	0.1	25.2	30.4	37.4
BZX84C 39	Y14	37.00	41.00	2	130	350	0.5	0.1	27.3	33.4	41.2
BZX84C 43	Y15	40.00	46.00	2	100	700	1.0	0.1	32.0	10.0	12.0
BZX84C 47	Y16	44.00	50.00	2	100	750	1.0	0.1	35.0	10.0	12.0
BZX84C 51	Y17	48.00	54.00	2	125	750	1.0	0.1	38.0	10.0	12.0
BZX84C 56	Y18	52.00	60.00	2	135	700	1.0	0.1	39.0	10.0	12.0
BZX84C 62	Y19	58.00	66.00	2	200	1000	1.0	0.2	47.0	10.0	12.0
BZX84C 68	Y20	64.00	72.00	2	250	1000	1.0	0.2	52.0	10.0	12.0
BZX84C 75	Y21•	70.00	79.00	2	300	1000	1.0	0.2	57.0	10.0	12.0

Typical Characteristics

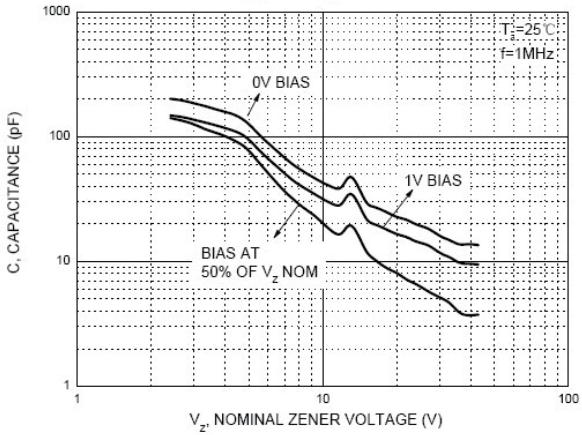




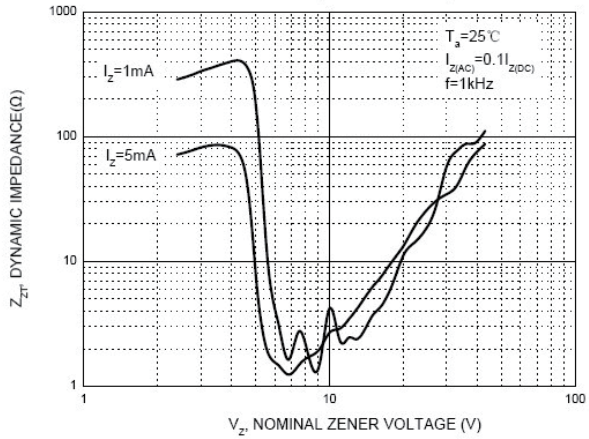




Typical Capacitance



Effect of Zener Voltage on Zener Impedance



Power Derating Curve

