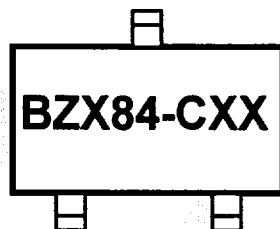


SOT- 23 SMD

Use Advantages



Zener Diodes

BZX84-C2V7 thru BZX84-C51

These Pro Electron zener diodes use lower zener test currents popular in so many of today's battery powered applications.

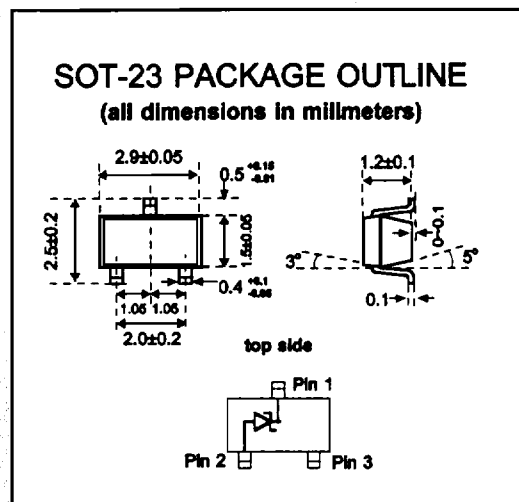
For use in clipping and stabilizing circuits, where local protection is needed.

The small size of this plastic package permits high density board designs.

Compatible with all major automatic assembly equipment.

Features

- Small size
- High quality
- Thermally matched system
- Few applications restrictions
- Thermo-compression bonding
- DO-35 axial leaded types available
- Also comes in a glass Mini Melf SMD



Absolute Maximum Ratings	Symbol	Value	Unit
Power Dissipation at $T_{Amb} = 25^{\circ}\text{C}$	P_{tot}	350 ¹⁾	Milliwatts
Junction Temperature	T_j	175	$^{\circ}\text{C}$
Storage Temperature Range	T_s	-65 to +175	$^{\circ}\text{C}$

Characteristics at $T_{Amb} = 25^{\circ}\text{C}$	Symbol	Max. Limit	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	420 ¹⁾	$^{\circ}\text{C/W}$
Forward voltage drop at $I_F = 10\text{ mA}$	V_F	0.90	Volt

1) Mounted on Ceramic Substrate 10 mm x 8 mm x 0.7 mm

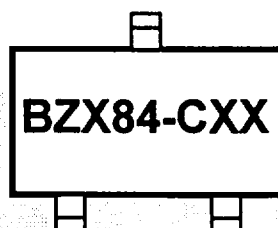
DETAILED SPECIFICATIONS ON REVERSE



6 Lake Street
Lawrence, MA
USA 01841

Telephone (508) 681-0392 • FAX (508) 681-9135

SOT- 23 SMD
BZX84-C2V7
 thru
BZX84-C51



Zener Diodes
Detail
Specifications

Type	Zener Voltage Range (V_Z) @ I_{ZT}		Maximum Zener Impedance		Maximum Reverse Leakage Current		Typical Temp. Coef. of Zener Voltage %/°C
	Volts	mA	Z_{zt} @ I_{ZT} Ohms	Z_{zk} @ 0.5* & 1mA Ohms	(I_R) μA	@ V_R Volts	
BZX84-C2V7	2.5...2.9	5.0	100	600	20	1	0.075
BZX84-C3	2.8 3.2	5.0	95	600	20	1	-0.07
BZX84-C3V3	3.1...3.5	5.0	95	600	5	1	-0.06
BZX84-C3V6	3.4...3.8	5.0	90	600	5	1	-0.055
BZX84-C3V9	3.7...4.1	5.0	90	600	3	1	-0.045
BZX84-C4V3	4.0...4.6	5.0	90	600	3	1	-0.01
BZX84-C4V7	4.4...5.0	5.0	80	500	3	2	+0.01
BZX84-C5V1	4.8...5.4	5.0	60	480	2	2	+0.025
BZX84-C5V6	5.2...6.0	5.0	40	400	1	2	+0.035
BZX84-C6V2	5.8...6.6	5.0	10	150	3	4	+0.04
BZX84-C6V8	6.4...7.2	5.0	15	80	2	4	+0.044
BZX84-C7V5	7.0...7.9	5.0	15	80	1	5	+0.051
BZX84-C8V2	7.7...8.7	5.0	15	80	0.7	5	+0.055
BZX84-C9V1	8.5...9.6	5.0	15	100	0.5	6	+0.061
BZX84-C10	9.4...10.6	5.0	20	150	0.2	7	+0.065
BZX84-C11	10.4...11.6	5.0	20	150	0.1	8	+0.068
BZX84-C12	11.4...12.7	5.0	25	150	0.1	8	+0.07
BZX84-C13	12.4...14.1	5.0	30	170	0.1	8	+0.075
BZX84-C15	13.8...15.8	5.0	30	200	0.05	$0.7V_{Z_{NOM}}$	+0.079
BZX84-C16	15.3...17.1	5.0	40	200	0.05	$0.7V_{Z_{NOM}}$	+0.080
BZX84-C18	16.8...19.1	5.0	45	225	0.05	$0.7V_{Z_{NOM}}$	+0.083
BZX84-C20	18.8...21.2	5.0	55	225	0.05	$0.7V_{Z_{NOM}}$	+0.085
BZX84-C22	20.8...23.3	5.0	55	250	0.05	$0.7V_{Z_{NOM}}$	+0.087
BZX84-C24	22.8...25.6	5.0	70	250	0.05	$0.7V_{Z_{NOM}}$	+0.090
BZX84-C27	25.1...28.9	2.0	80	300*	0.05	$0.7V_{Z_{NOM}}$	+0.091
BZX84-C30	28...32	2.0	80	300*	0.05	$0.7V_{Z_{NOM}}$	+0.093
BZX84-C33	31...35	2.0	80	325*	0.05	$0.7V_{Z_{NOM}}$	+0.094
BZX84-C36	34...38	2.0	90	350*	0.05	$0.7V_{Z_{NOM}}$	+0.094
BZX84-C39	37...41	2.0	130	350*	0.05	$0.7V_{Z_{NOM}}$	+0.095
BZX84-C43	40...46	2.0	150	375*	0.05	$0.7V_{Z_{NOM}}$	+0.095
BZX84-C47	44...50	2.0	170	375*	0.05	$0.7V_{Z_{NOM}}$	+0.096
BZX84-C51	48...54	2.0	180	400*	0.05	$0.7V_{Z_{NOM}}$	+0.096

For other voltage ranges, consult factory.
 DO-35 axial leaded and MELF SMD Glass packages available.