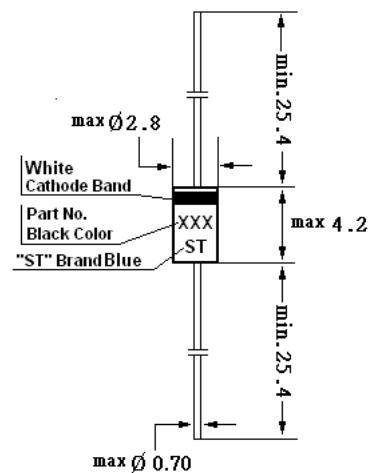


BZX2C...

SILICON PLANAR POWER ZENER DIODES

for use in stabilizing and clipping circuits with high power rating.

The Zener voltages are graded according to the international E24 standard. Other voltage tolerances and higher Zener voltages are upon request.



Glass Case JEDEC DO-41
Dimensions in mm

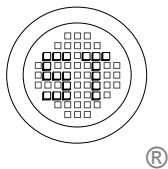
Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	2 ¹⁾	W
Junction Temperature	T _j	175	°C
Storage Temperature Range	T _s	- 65 to + 175	°C

¹⁾ Valid provided that leads are at a distance of 8 mm from case are kept at ambient temperature.

Characteristics at T_{amb} = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 200 mA	V _F	1.2	V



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



Dated : 17/05/2006

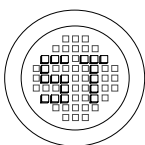
BZX2C...

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

Type	Zener Voltage Range			Dynamic Resistance			Reverse Leakage Current (I_R at V_R)		Maximum DC Zener Current
	V_{Znom}	V	I_{ZT} (mA)	Ohm at I_{ZT}	Ohm at I_{ZK}	I_{ZK} (mA)	I_R (μA)	V_R (V)	mA
BZX2C3V6	3.6	3.4...3.8	139	5	400	1	80	1	504
BZX2C3V9	3.9	3.7...4.1	128	5	400	1	30	1	468
BZX2C4V3	4.3	4.0...4.6	116	4.5	400	1	20	1	434
BZX2C4V7	4.7	4.4...5.0	106	4.5	550	1	5	1	386
BZX2C5V1	5.1	4.8...5.4	98	3.5	600	1	5	1	356
BZX2C5V6	5.6	5.2...6.0	89.5	2.5	650	1	5	2	324
BZX2C6V2	6.2	5.8...6.6	80.5	1.5	700	1	5	3	292
BZX2C6V8	6.8	6.4...7.2	73.5	2	700	1	5	4	266
BZX2C7V5	7.5	7.0...7.9	66.5	2	700	0.5	5	5	242
BZX2C8V2	8.2	7.7...8.7	61	2.3	700	0.5	5	6	220
BZX2C9V1	9.1	8.5...9.6	55	2.5	700	0.5	2	7	200
BZX2C10	10	9.4...10.6	50	3.5	700	0.25	3	7.6	182
BZX2C11	11	10.4...11.6	45.5	4	700	0.25	1	8.4	166
BZX2C12	12	11.4...12.7	41.5	4.5	700	0.25	1	9.1	152
BZX2C13	13	12.4...14.1	38.5	5	700	0.25	0.5	9.9	138
BZX2C15	15	13.8...15.6	33.4	7	700	0.25	0.5	11.4	122
BZX2C16	16	15.3...17.1	31.2	8	700	0.25	0.5	12.2	114
BZX2C18	18	16.8...19.1	27.8	10	750	0.25	0.5	13.7	100
BZX2C20	20	18.8...21.2	25	11	750	0.25	0.5	15.2	90
BZX2C22	22	20.8...23.3	22.8	12	750	0.25	0.5	16.7	82
BZX2C24	24	22.8...25.6	20.8	13	750	0.25	0.5	18.2	76
BZX2C27	27	25.1...28.9	18.5	18	750	0.25	0.5	20.6	68
BZX2C30	30	28...32	16.6	20	1000	0.25	0.5	22.5	60
BZX2C33	33	31...35	15.1	23	1000	0.25	0.5	25.1	55
BZX2C36	36	34...38	13.9	25	1000	0.25	0.5	27.4	50
BZX2C39	39	37...41	12.8	30	1000	0.25	0.5	29.7	47
BZX2C43	43	40...46	11.6	35	1500	0.25	0.5	32.7	43
BZX2C47	47	44...50	10.6	40	1500	0.25	0.5	35.8	39
BZX2C51	51	48...54	9.8	48	1500	0.25	0.5	38.8	36
BZX2C56	56	52...60	9	55	2000	0.25	0.5	42.6	32
BZX2C62	62	58...66	8.1	60	2000	0.25	0.5	47.1	29
BZX2C68	68	64...72	7.4	75	2000	0.25	0.5	51.7	27
BZX2C75	75	70...79	6.7	90	2000	0.25	0.5	56	24
BZX2C82	82	77...87	6.1	100	3000	0.25	0.5	62.2	22
BZX2C91	91	85...96	5.5	125	3000	0.25	0.5	69.2	20
BZX2C100	100	94...106	5	175	3000	0.25	0.5	76	18
BZX2C110	110	104...116	4.5	250	4000	0.25	0.5	83.6	17
BZX2C120	120	114...127	4.2	325	4500	0.25	0.5	91.2	15
BZX2C130	130	124...141	3.8	400	5000	0.25	0.5	98.8	14
BZX2C150	150	138...156	3.3	575	6000	0.25	0.5	114	12
BZX2C160	160	153...171	3.1	650	6500	0.25	0.5	121.6	11
BZX2C180	180	168...191	2.8	725	7000	0.25	0.5	136.8	10
BZX2C200	200	188...212	2.5	900	8000	0.25	0.5	152	9

¹⁾ Tested with pulses $t_p = 20$ ms.

²⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.



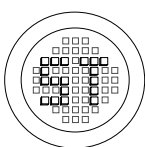
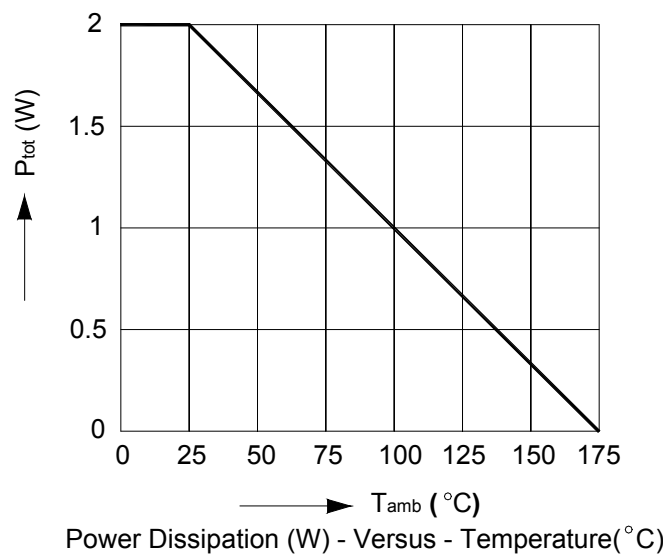
SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002 Certificate No. 05103 ISO 14001:2004 Certificate No. 7116 ISO 9001:2000 Certificate No. 0506098

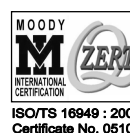
Dated : 17/05/2006



®

SEMTECH ELECTRONICS LTD.

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



Dated : 17/05/2006