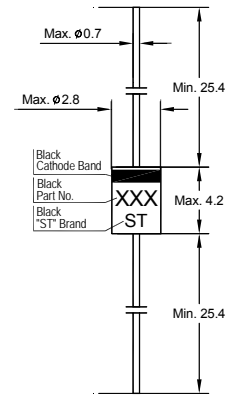


BZX85B

SILICON PLANAR POWER ZENER DIODES

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



Glass Case DO-41
Dimensions in mm

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

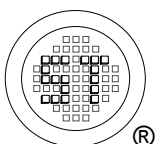
Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	1.3 ¹⁾	W
Junction Temperature	T_j	200	$^\circ\text{C}$
Storage Temperature Range	T_s	- 55 to + 200	$^\circ\text{C}$

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

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	130 ¹⁾	K/W
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech 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. 71116



ISO 9001:2000
Certificate No. 0506098

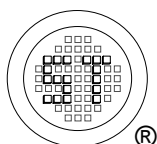
Dated : 12/06/2007

BZX85B

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

Type	Zener Voltage Range ¹⁾			Maximum Dynamic Resistance			Maximum Reverse Leakage Current	
	V_{Znom} V	I_{ZT} mA	for V_{ZT} V	r_{ZJT} Ω	r_{ZJK} Ω	at I_{ZK} mA	I_R μA	at V_R V
BZX85B5V1	5.1	45	4.99...5.2	10	500	1	1	1.5
BZX85B5V6	5.6	45	5.49...5.71	7	400	1	1	2
BZX85B6V2	6.2	35	6.07...6.32	4	300	1	1	3
BZX85B6V8	6.8	35	6.66...6.94	3.5	300	1	1	4
BZX85B7V5	7.5	35	7.35...7.65	3	200	0.5	1	4.5
BZX85B8V2	8.2	25	8.04...8.36	5	200	0.5	1	6.2
BZX85B9V1	9.1	25	8.92...9.28	5	200	0.5	1	6.8
BZX85B10	10	25	9.8...10.2	7	200	0.5	0.5	7
BZX85B11	11	20	10.8...11.2	8	300	0.5	0.5	8.2
BZX85B12	12	20	11.8...12.2	9	350	0.5	0.5	9.1
BZX85B13	13	20	12.7...13.3	10	400	0.5	0.5	10
BZX85B15	15	15	14.7...15.3	15	500	0.5	0.5	11
BZX85B16	16	15	15.7...16.3	15	500	0.5	0.5	12
BZX85B18	18	15	17.6...18.4	20	500	0.5	0.5	13
BZX85B20	20	10	19.6...20.4	24	600	0.5	0.5	15
BZX85B22	22	10	21.6...22.5	25	600	0.5	0.5	16
BZX85B24	24	10	23.5...24.5	25	600	0.5	0.5	18
BZX85B27	27	8	26.4...27.6	30	750	0.25	0.5	20
BZX85B30	30	8	29.4...30.6	30	1000	0.25	0.5	22
BZX85B33	33	8	32.3...33.7	35	1000	0.25	0.5	24
BZX85B36	36	8	35.2...36.8	40	1000	0.25	0.5	27
BZX85B39	39	6	38.2...39.8	50	1000	0.25	0.5	30
BZX85B43	43	6	42.1...43.9	50	1000	0.25	0.5	33
BZX85B47	47	4	46...48	90	1500	0.25	0.5	36

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech 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. 71116



ISO 9001:2000
Certificate No. 0506098

Dated : 12/06/2007