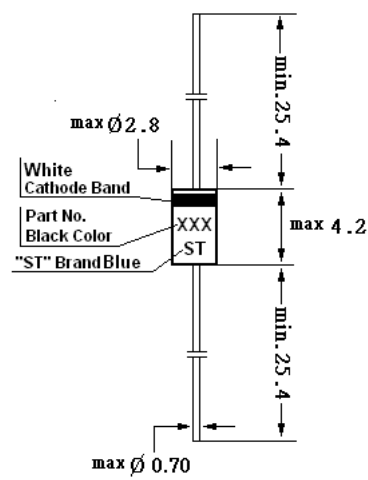


BZX85B...

SILICON PLANAR POWER ZENER DIODES

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



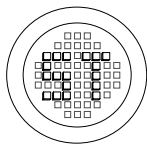
Glass Case JEDEC DO-41
Dimensions in mm

Absolute Maximum Ratings (T_a = 25 °C)

	Symbol	Value	Unit
Power Dissipation	P _{tot}	1.3 ¹⁾	W
Junction Temperature	T _j	200	°C
Storage Temperature Range	T _s	-55 to +200	°C
¹⁾ Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case			

Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	-	130 ¹⁾	K/W
Forward Voltage at I _F = 200mA	V _F	-	1	V
¹⁾ 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)

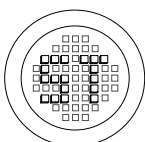


BZX85B...

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

Type	Zener Voltage Range ¹⁾			Dynamic Resistance			Reverse Leakage Current		Temp . coefficient of Zener Voltage
	V _{znom} V	I _{ZT} mA	for V _{ZT} V	r _{ZJT} Ω	r _{ZJK} at I _{ZK} Ω	I _{ZK} mA	I _R at V _R μA	V _R V	TKvz %/K
BZX85/B5V1	5.1	45	4.99...5.2	<10	<500	1	<1	1.5	-0.01...+0.04
BZX85/B5V6	5.6	45	5.49...5.71	<7	<400	1	<1	2	0...+0.045
BZX85/B6V2	6.2	35	6.07...6.32	<4	<300	1	<1	3	+0.01...+0.055
BZX85/B6V8	6.8	35	6.66...6.94	<3.5	<300	1	<1	4	+0.015...+0.06
BZX85/B7V5	7.5	35	7.35...7.65	<3	<200	0.5	<1	4.5	+0.02...+0.065
BZX85/B8V2	8.2	25	8.04...8.36	<5	<200	0.5	<1	6.2	0.03...0.07
BZX85/B9V1	9.1	25	8.92...9.28	<5	<200	0.5	<1	6.8	0.035...0.075
BZX85/B10	10	25	9.8...10.2	<7	<200	0.5	<0.5	7	0.04...0.08
BZX85/B11	11	20	10.8...11.2	<8	<300	0.5	<0.5	8.2	0.045...0.08
BZX85/B12	12	20	11.8...12.2	<9	<350	0.5	<0.5	9.1	0.045...0.085
BZX85/B13	13	20	12.7...13.3	<10	<400	0.5	<0.5	10	0.05...0.085
BZX85/B15	15	15	14.7...15.3	<15	<500	0.5	<0.5	11	0.055...0.09
BZX85/B16	16	15	15.7...16.3	<15	<500	0.5	<0.5	12	0.055...0.09
BZX85/B18	18	15	17.6...18.4	<20	<500	0.5	<0.5	13	0.06...0.09
BZX85/B20	20	10	19.6...20.4	<24	<600	0.5	<0.5	15	0.06...0.09
BZX85/B22	22	10	21.6...22.5	<25	<600	0.5	<0.5	16	0.06...0.095
BZX85/B24	24	10	23.5...24.5	<25	<600	0.5	<0.5	18	0.06...0.095
BZX85/B27	27	8	26.4...27.6	<30	<750	0.25	<0.5	20	0.06...0.095
BZX85/B30	30	8	29.4...30.6	<30	<1000	0.25	<0.5	22	0.06...0.095
BZX85/B33	33	8	32.3...33.7	<35	<1000	0.25	<0.5	24	0.06...0.095
BZX85/B36	36	8	35.2...36.8	<40	<1000	0.25	<0.5	27	0.06...0.095
BZX85/B39	39	6	38.2...39.8	<50	<1000	0.25	<0.5	30	0.06...0.095
BZX85/B43	43	6	42.1...43.9	<50	<1000	0.25	<0.5	33	0.06...0.095
BZX85/B47	47	4	46...48	<90	<1500	0.25	<0.5	36	0.06...0.095

¹⁾ Tested with pulses $t_p = 20$ ms.



SEMTECH ELECTRONICS LTD.

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



Dated : 31/10/2005