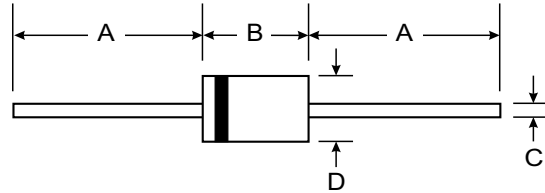


Features

- Very Sharp Edge in Reverse Characteristics
- Low Reverse Current Level
- Very High Stability
- Low Noise



Mechanical Data

- Case: DO-41, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Approx. Weight: 0.35 grams

DO-41 Glass		
Dim	Min	Max
A	25.40	—
B	—	4.70
C	—	0.863
D	—	2.71
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit	Test Condition
Power Dissipation	P_d	1.3	W	Lead length = 4mm, $T_L = 25^\circ\text{C}$
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	110	K/W	Lead length = 4mm $T_L = \text{constant}$
Forward Voltage	V_F	1.0	V	$I_F = 200\text{mA}$
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175	$^\circ\text{C}$	

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Type Number	Nominal Zener Voltage		Zener Voltage Range	Zener Impedance	Zener Impedance		Leakage Current @ V _R		Temperature Coefficient
	V _Z @ I _{ZT}		V _Z @ I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZT} @ I _{ZK}		I _R @ V _R		
	(V)	(mA)	(V)	(Ω)	(Ω)	(mA)	(μA)	(V)	
BZX85C2V7	2.7	80	2.5 to 2.9	< 20	< 400	1.0	< 150	1.0	-0.08 to -0.05
BZX85C3V0	3.0	80	2.8 to 3.2	< 20	< 400	1.0	< 100	1.0	-0.08 to -0.05
BZX85C3V3	3.3	80	3.1 to 3.5	< 20	< 400	1.0	< 40	1.0	-0.08 to -0.05
BZX85C3V6	3.6	60	3.4 to 3.8	< 20	< 500	1.0	< 20	1.0	-0.08 to -0.05
BZX85C3V9	3.9	60	3.7 to 4.1	< 15	< 500	1.0	< 10	1.0	-0.07 to -0.02
BZX85C4V3	4.3	50	4.0 to 4.6	< 13	< 500	1.0	< 3.0	1.0	-0.07 to -0.01
BZX85C4V7	4.7	45	4.4 to 5.0	< 13	< 600	1.0	< 3.0	1.0	-0.03 to +0.04
BZX85C5V1	5.1	45	4.8 to 5.4	< 10	< 500	1.0	< 1.0	1.5	-0.01 to + 0.04
BZX85C5V6	5.6	45	5.2 to 6.0	< 7.0	< 400	1.0	< 1.0	2.0	0 to +0.045
BZX85C6V2	6.2	35	5.8 to 6.6	< 4.0	< 300	1.0	< 1.0	3.0	+0.01 to 0.055
BZX85C6V8	6.8	35	6.4 to 7.2	< 3.5	< 300	1.0	< 1.0	4.0	+0.015 to 0.06
BZX85C7V5	7.5	35	7.0 to 7.9	< 3.0	< 200	0.5	< 1.0	4.5	+0.02 to 0.065
BZX85C8V2	8.2	25	7.7 to 8.7	< 5.0	< 200	0.5	< 1.0	6.2	0.03 to 0.07
BZX85C9V1	9.1	25	8.5 to 9.6	< 5.0	< 200	0.5	< 1.0	6.8	0.035 to 0.075
BZX85C10	10	25	9.4 to 10.6	< 7.0	< 200	0.5	< 0.5	7.0	0.04 to 0.08
BZX85C11	11	20	10.4 to 11.6	< 8.0	< 300	0.5	< 0.5	8.2	0.045 to 0.08
BZX85C12	12	20	11.4 to 12.7	< 9.0	< 350	0.5	< 0.5	9.1	0.045 to 0.085
BZX85C13	13	20	12.4 to 14.1	< 10	< 400	0.5	< 0.5	10	0.05 to 0.085
BZX85C15	15	15	13.8 to 15.6	< 15	< 500	0.5	< 0.5	11	0.055 to 0.09
BZX85C16	16	15	15.3 to 17.1	< 15	< 500	0.5	< 0.5	12	0.055 to 0.09
BZX85C18	18	15	16.8 to 19.1	< 20	< 500	0.5	< 0.5	13	0.06 to 0.09
BZX85C20	20	10	18.8 to 21.2	< 24	< 600	0.5	< 0.5	15	0.06 to 0.09
BZX85C22	22	10	20.8 to 23.3	< 25	< 600	0.5	< 0.5	16	0.06 to 0.095
BZX85C24	24	10	22.8 to 25.6	< 25	< 600	0.5	< 0.5	18	0.06 to 0.095
BZX85C27	27	8.0	25.1 to 28.9	< 30	< 750	0.25	< 0.5	20	0.06 to 0.095
BZX85C30	30	8.0	28 to 32	< 30	< 1000	0.25	< 0.5	22	0.06 to 0.095
BZX85C33	33	8.0	31 to 35	< 35	< 1000	0.25	< 0.5	24	0.06 to 0.095
BZX85C36	36	8.0	34 to 38	< 40	< 1000	0.25	< 0.5	27	0.06 to 0.095
BZX85C39	39	6.0	37 to 41	< 50	< 1000	0.25	< 0.5	30	0.06 to 0.095
BZX85C43	43	6.0	40 to 46	< 50	< 1000	0.25	< 0.5	33	0.06 to 0.095
BZX85C47	47	4.0	44 to 50	< 90	< 1500	0.25	< 0.5	36	0.06 to 0.095
BZX85C51	51	4.0	48 to 54	< 115	< 1500	0.25	< 0.5	39	0.06 to 0.095
BZX85C56	56	4.0	52 to 60	< 120	< 2000	0.25	< 0.5	43	0.06 to 0.095
BZX85C62	62	4.0	58 to 66	< 125	< 2000	0.25	< 0.5	47	0.06 to 0.095
BZX85C68	68	4.0	64 to 72	< 130	< 2000	0.25	< 0.5	51	0.06 to 0.095
BZX85C75	75	4.0	70 to 79	< 135	< 2000	0.25	< 0.5	56	0.06 to 0.095

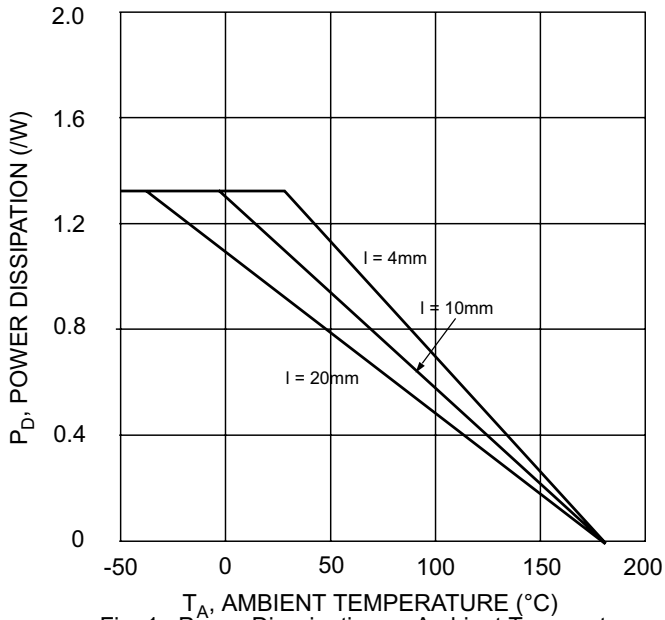


Fig. 1, Power Dissipation vs Ambient Temperature

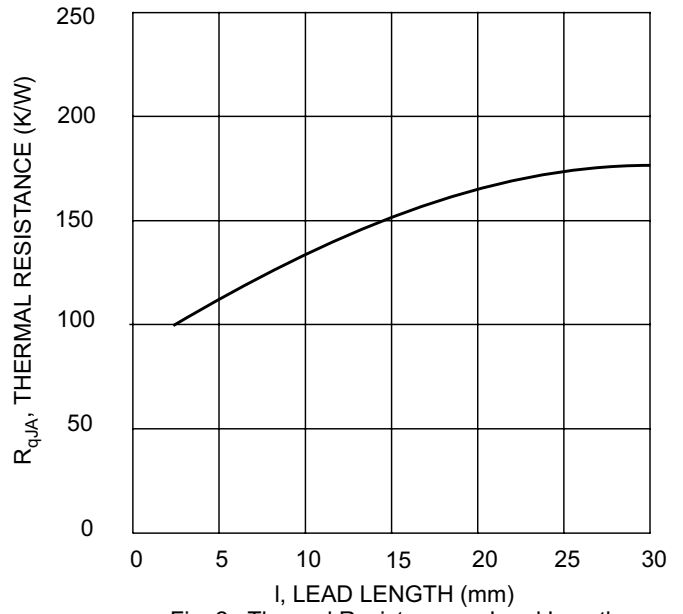


Fig. 2, Thermal Resistance vs Lead Length

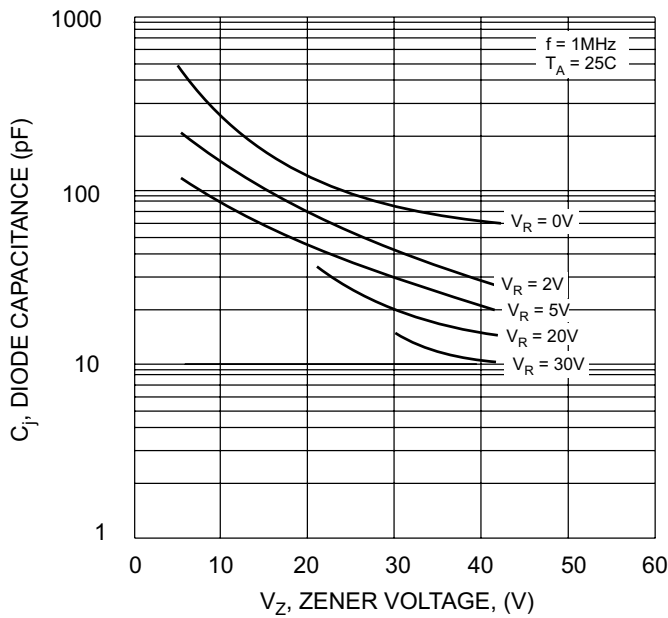


Fig.3, Diode Capacitance vs Zener Voltage

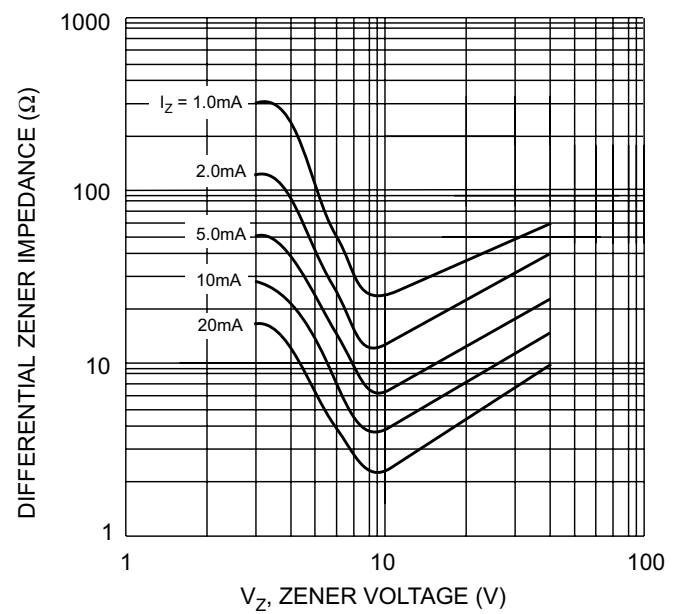


Fig. 4 Differential Zener Impedance vs. Zener Voltage