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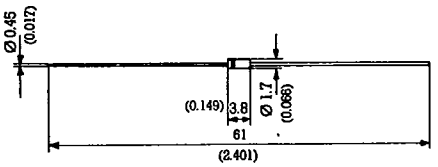
BZY88C5V1 ..... BZY88C33V

0.5 W Zener Diodes

T-11-11

Dimensions in mm. (inches) DO-35 (Glass)



Mounting instructions

1. Min. distance from body to soldering point, 2 mm.
2. Max. solder temperature, 300°C.
3. Max. soldering time, 3 sec.
4. Do not bend lead at a point closer than 1,5 mm. to the body.

Voltage
5.1 to 33 V.

Power
0.5 W

Standard Voltage Tolerance is ± 5 %

- Low cost
- DO-35 Glass case
- Terminals: Axial Leads
- Polarity: Color band denotes cathode

Maximum Ratings, according to IEC publication No. 134

P_{tot}	Power dissipation at Tamb = 25°C	500 mW
P_{ZSM}	Non repetitive peak zener dissipation (T_j = 25°C, t = 1 ms)	12 W
T_j	Max. operating temperature	175°C
T_{stg}	Storage temperature range	− 50°C to + 175°C

Electrical Characteristics at Tamb = 25°C

V_F	Max. forward voltage drop at I_F = 200 mA	1,2 V
$R_{thj\text{-}a}$	Max. thermal resistance at: 8 mm. lead length	0,30°C/mW

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Type	Zener Voltage Range at $I_z = 5$ mA V_z	Maximum Zener Impedance Z_{zt}	I_z	Typical Temperature Coefficient	Maximum Reverse Leakage Current I_R	at V_R
	(V)	(Ω)	(mA)	(mV/°C)	(μA)	(V)
BZY88-C5V1	4.8-5.4	75	5	− 1.2	1	2
BZY88-C5V6	5.2-6.0	55	5	− 0.2	1	2
BZY88-C6V2	5.8-6.6	27	5	+ 2	1	2
BZY88-C6V8	6.4-7.2	15	5	+ 3.2	1	3
BZY88-C7V5	7.0-7.9	15	5	+ 4.2	0.5	3
BZY88-C8V2	7.7-8.7	20	5	+ 5	0.4	3
BZY88-C9V1	8.5-9.6	25	5	+ 6	0.4	5
BZY88-C10	9.4-10.6	25	5	+ 7	2.5	7
BZY88-C11	10.4-11.6	35	5	+ 8.7	2.5	7
BZY88-C12	11.4-12.7	35	5	+ 9	2.5	8
BZY88-C13	12.4-14.1	35	5	+ 10.4	2.5	9
BZY88-C15	13.8-15.6	35	5	+ 12.5	2.5	10
BZY88-C16	15.3-17.1	40	5	+ 13	2.5	10
BZY88-C18	16.8-19.1	45	5	+ 15	2.5	13
BZY88-C20	18.8-21.2	50	5	+ 17	2.5	14
BZY88-C22	20.8-23.3	60	5	+ 19	2.5	15
BZY88-C24	22.8-25.6	75	5	+ 21	2.5	17
BZY88-C27	25.1-28.9	85	5	+ 23.5	2.5	19
BZY88-C30	28-32	95	5	+ 26	2.5	21
BZY88-C33	31-35	120	5	+ 28	2.5	23

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Characteristic Curves

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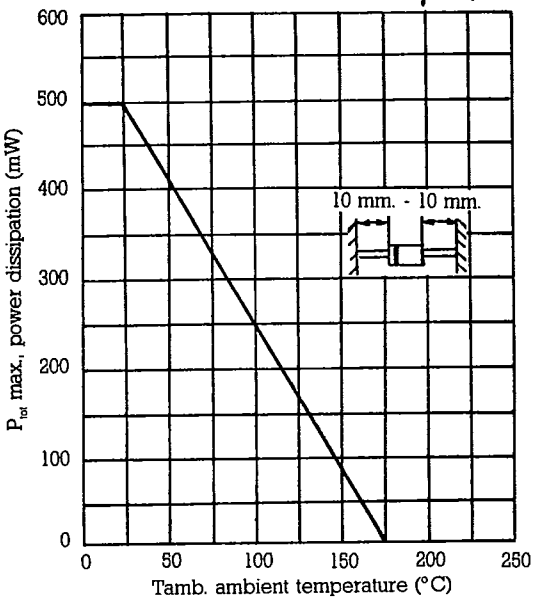

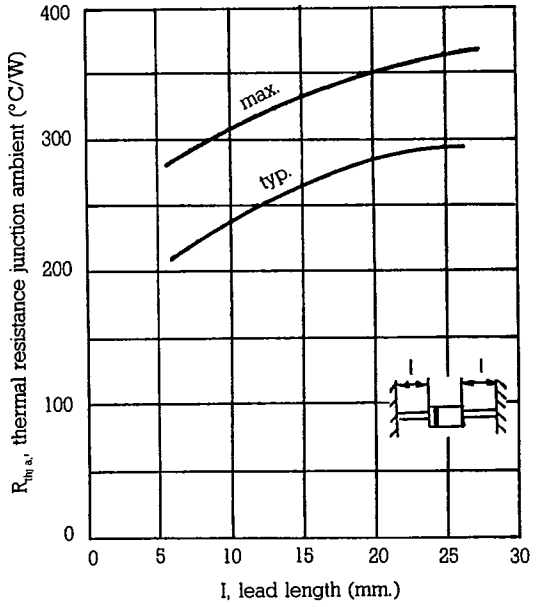

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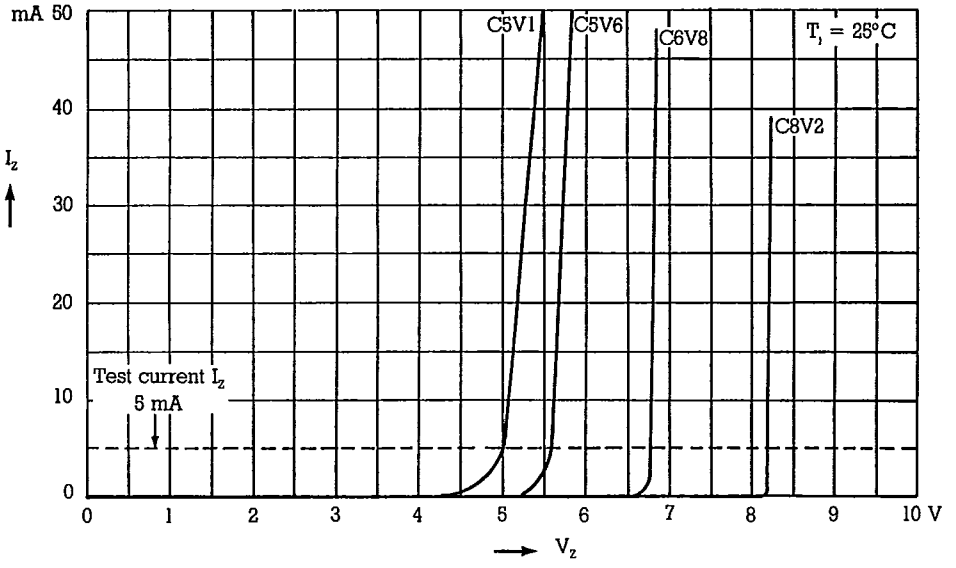
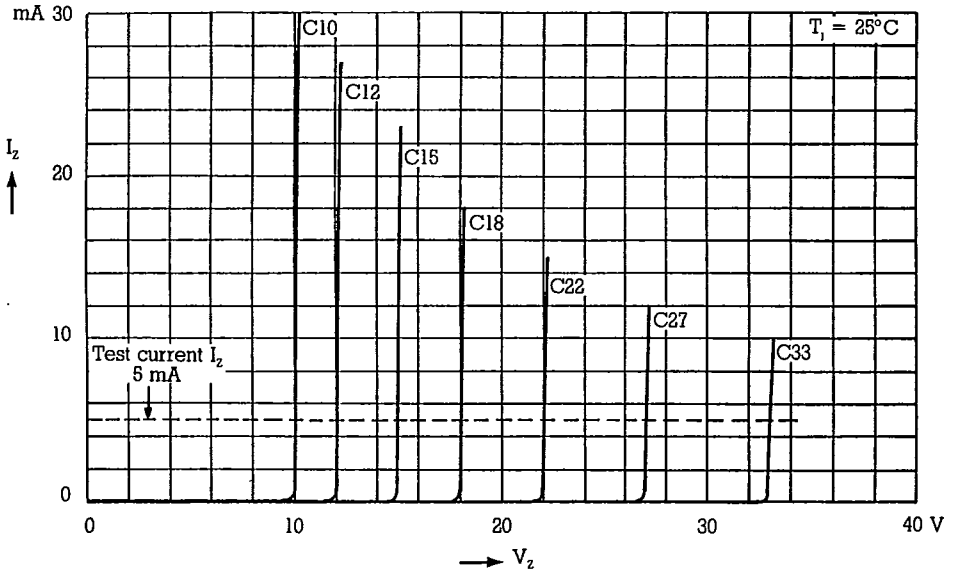
Breakdown characteristics at T_j = constant (Pulsed)





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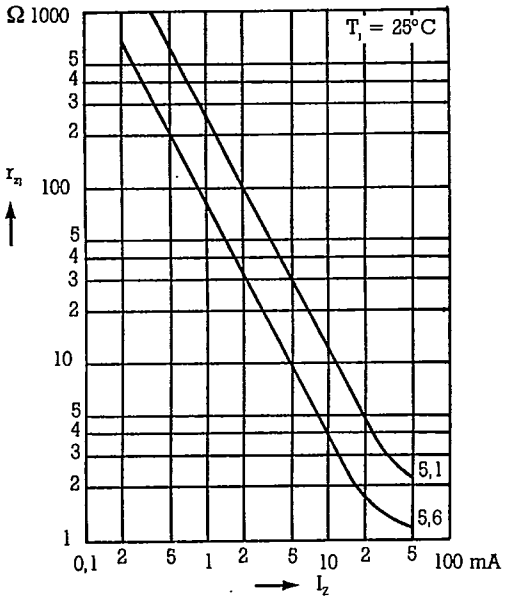
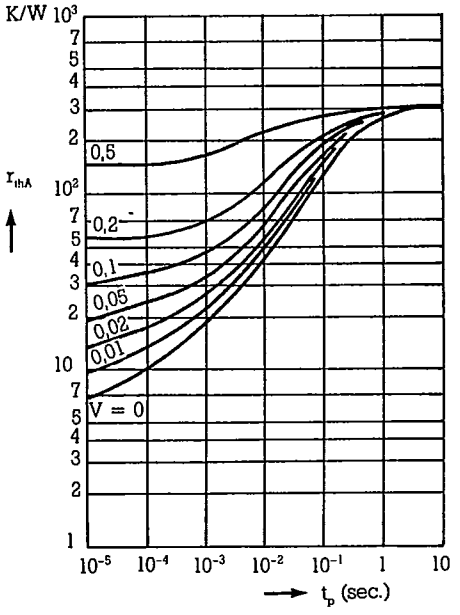
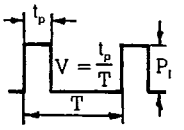
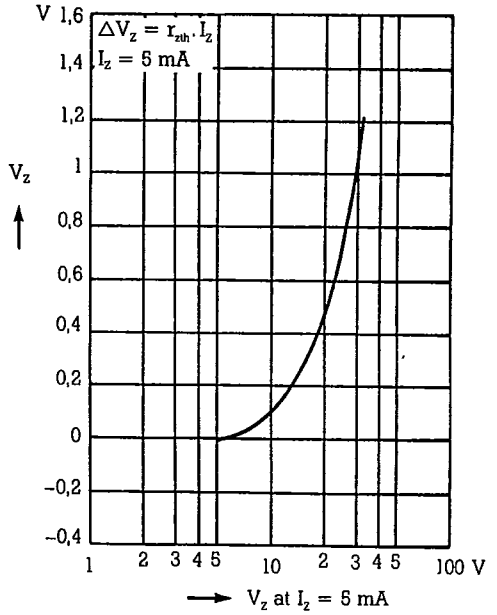


Dynamic resistance versus Zener current.

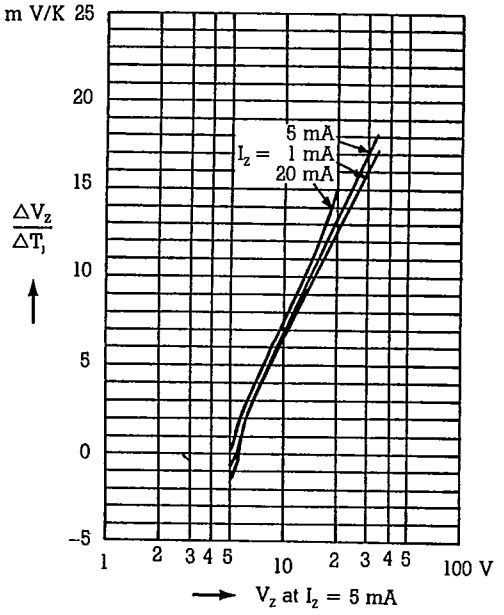


Pulse thermal resistance versus pulse duration. Valid provided that leads are kept at ambient temperature at a distance of 8 mm. from case.





Change of Zener voltage from turn-on up to the point of thermal equilibrium versus Zener voltage.



Temperature dependence of Zener voltage versus Zener voltage.

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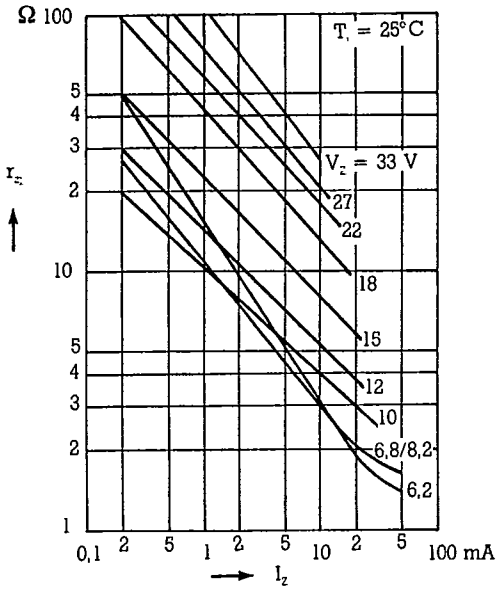
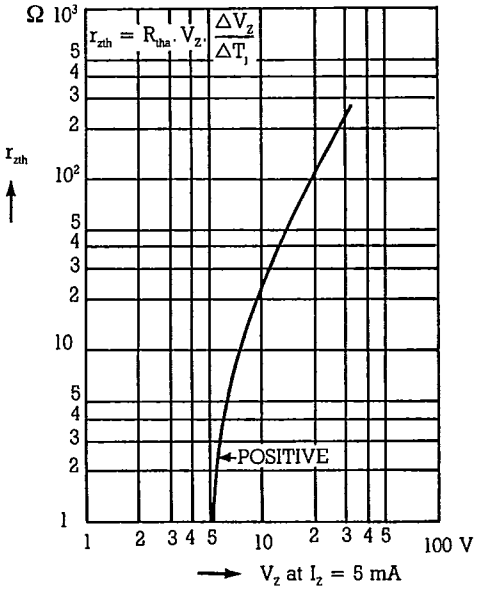


Dynamic resistance versus Zener current.



Thermal differential resistance versus Zener voltage. Valid provided that leads are kept at ambient temperature at a distance of 8 mm. from case.

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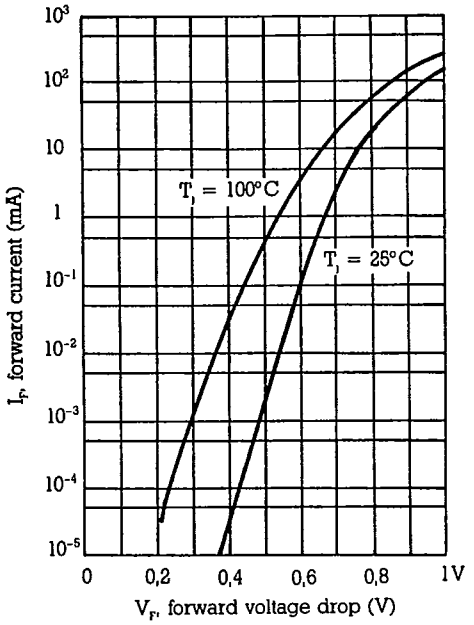
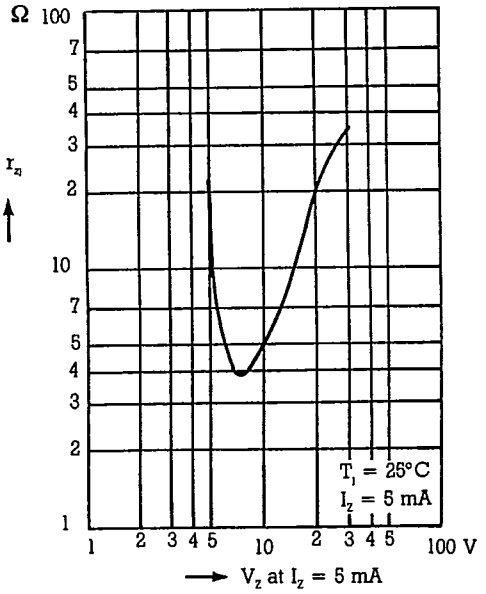


Forward characteristics.



Dynamic resistance versus Zener voltage.

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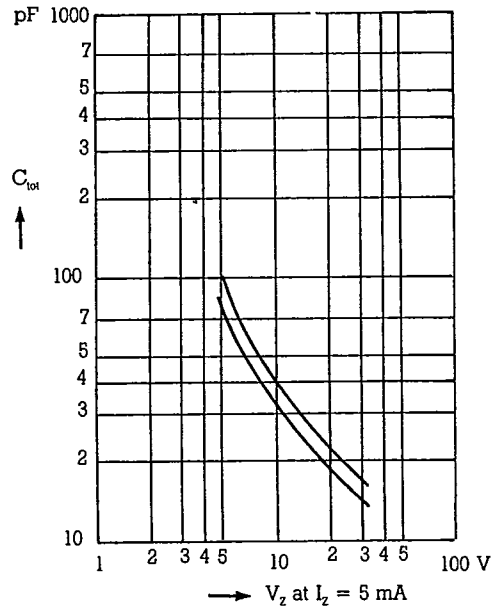
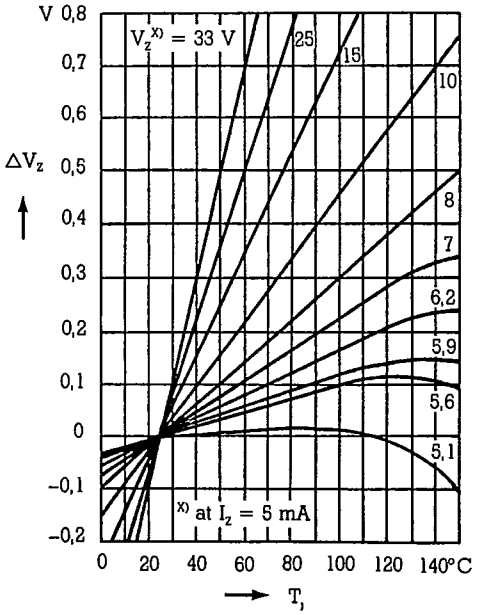


Capacitance versus Zener voltage.



Change of Zener voltage versus junction temperature.