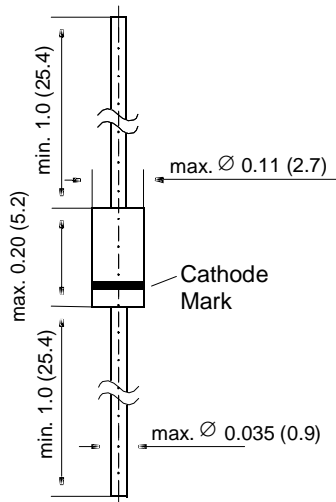
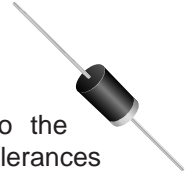


BZY97-C11 THRU BZY97-C68**ZENER DIODES****DO-41 Plastic**

Dimensions are in inches and (millimeters)

FEATURES

- ◆ Silicon Power Zener Diodes
- ◆ For use in stabilizing and clipping circuits with high power rating.
- ◆ The Zener voltages are graded according to the international E 24 standard. Smaller voltage tolerances are available upon request.

**MECHANICAL DATA**

Case: DO-41 Plastic Case

Weight: approx. 0.34 g

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Zener Current (see Table "Characteristics")			
Power Dissipation at $T_{amb} = 60^{\circ}\text{C}$	P_{tot}	1.5 ¹⁾	Watts
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature Range	T_s	- 55 to +150	$^{\circ}\text{C}$

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

	SYMBOL	MIN.	TYP.	MAX.	UNIT
Thermal Resistance Junction to Ambient Air	R_{thJA}	-	-	60 ¹⁾	$^{\circ}\text{C}/\text{W}$

NOTES:

(1) Valid provided that leads at a distance of 10 mm from case are kept at ambient temperature.

BZY97-C11 THRU BZY97-C68**ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.

Type	Zener voltage ⁽¹⁾ at I _{ZT} min. max. V _Z (V)	Dynamic resistance at -I _{ZT} f = 1 kHz max r _{Zj} (Ω)	Temp. coeff. of Zener volt. at I _{ZT} α _{VZ} (10 ⁻⁴ /K)	Test current I _{ZT} (mA)	Leakage current I _R (μA)	Reverse voltage V _R (V)	Admissible Zener current at T _{amb} = 60°C I _Z (mA)	I _{ZSM} t _p = 10 ms (A)
BZY97 - C11	10.4 ... 11.6	7	+5 ... +10	50	0.5	5	129	1.3
BZY97 - C12	11.4 ... 12.7	7	+5 ... +10	50	0.5	7	118	1.2
BZY97 - C13	12.4 ... 14.1	10	+5 ... +10	50	0.5	7	106	1.1
BZY97 - C15	13.8 ... 15.6	10	+5 ... +10	50	0.5	10	96	1.0
BZY97 - C16	15.3 ... 17.1	15	+6 ... +11	25	0.5	10	88	0.90
BZY97 - C18	16.8 ... 19.1	15	+6 ... +11	25	0.5	10	79	0.81
BZY97 - C20	18.8 ... 21.2	15	+6 ... +11	25	0.5	10	71	0.73
BZY97 - C22	20.8 ... 23.3	15	+6 ... +11	25	0.5	12	64	0.66
BZY97 - C24	22.8 ... 25.6	15	+6 ... +11	25	0.5	12	59	0.60
BZY97 - C27	25.1 ... 28.9	15	+6 ... +11	25	0.5	14	52	0.53
BZY97 - C30	28 ... 32	15	+6 ... +11	25	0.5	14	47	0.48
BZY97 - C33	31 ... 35	15	+6 ... +11	25	0.5	17	43	0.44
BZY97 - C36	34 ... 38	40	+6 ... +11	10	0.5	17	40	0.40
BZY97 - C39	37 ... 41	40	+6 ... +11	10	0.5	20	37	0.38
BZY97 - C43	40 ... 46	45	+7 ... +12	10	0.5	20	33	0.33
BZY97 - C47	44 ... 50	45	+7 ... +12	10	0.5	24	30	0.31
BZY97 - C51	48 ... 54	60	+7 ... +12	10	0.5	24	28	0.28
BZY97 - C56	52 ... 60	60	+7 ... +12	10	0.5	28	25	0.26
BZY97 - C62	58 ... 66	80	+7 ... +12	10	0.5	28	23	0.23
BZY97 - C68	64 ... 72	80	+7 ... +12	10	0.5	34	21	0.21

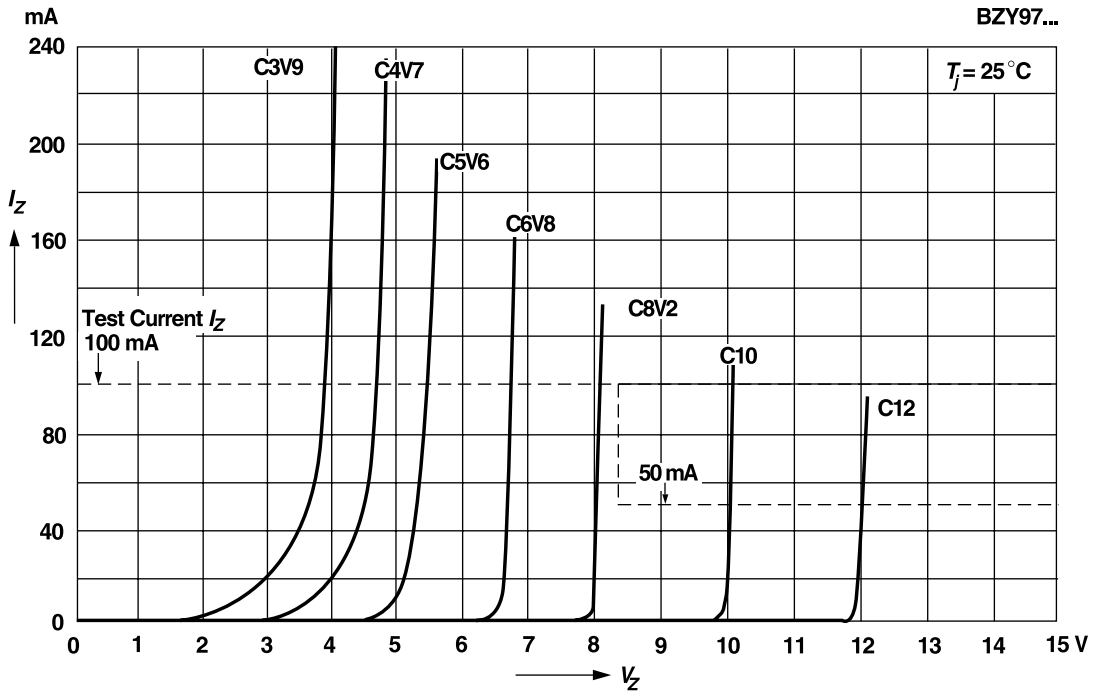
NOTES:(1) Tested with pulses t_p = 5 ms

(2) Consult factory for voltages above 68V

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RATINGS AND CHARACTERISTIC CURVES BZY97-C11 THRU BZY97-C68

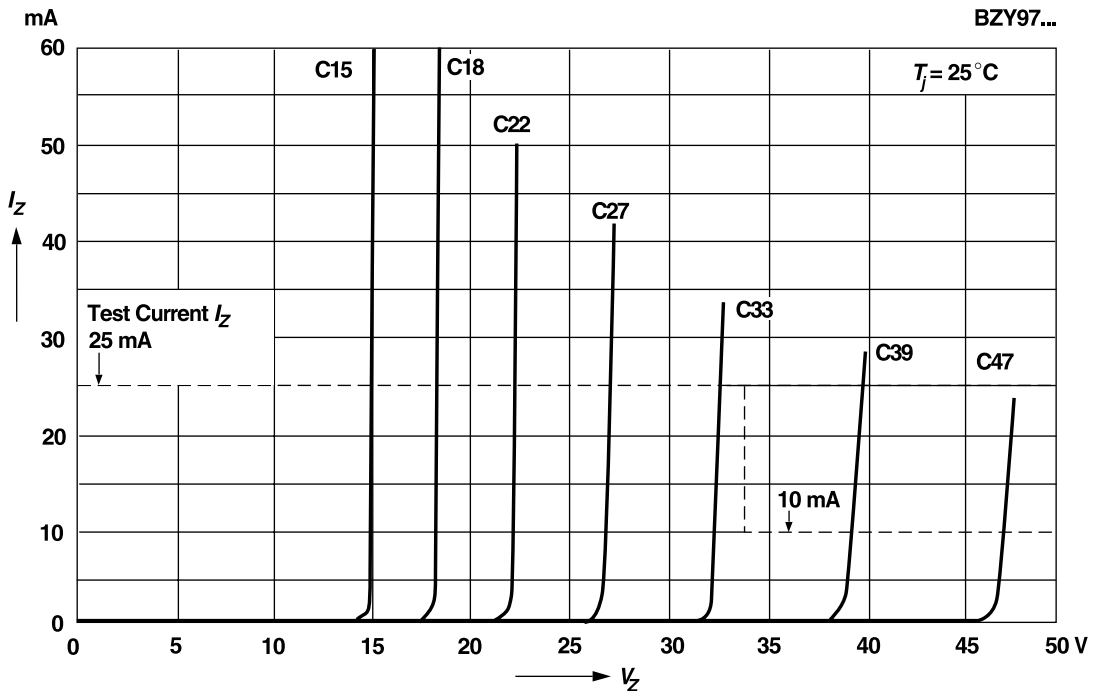
Breakdown characteristics

$T_j = \text{constant (pulsed)}$



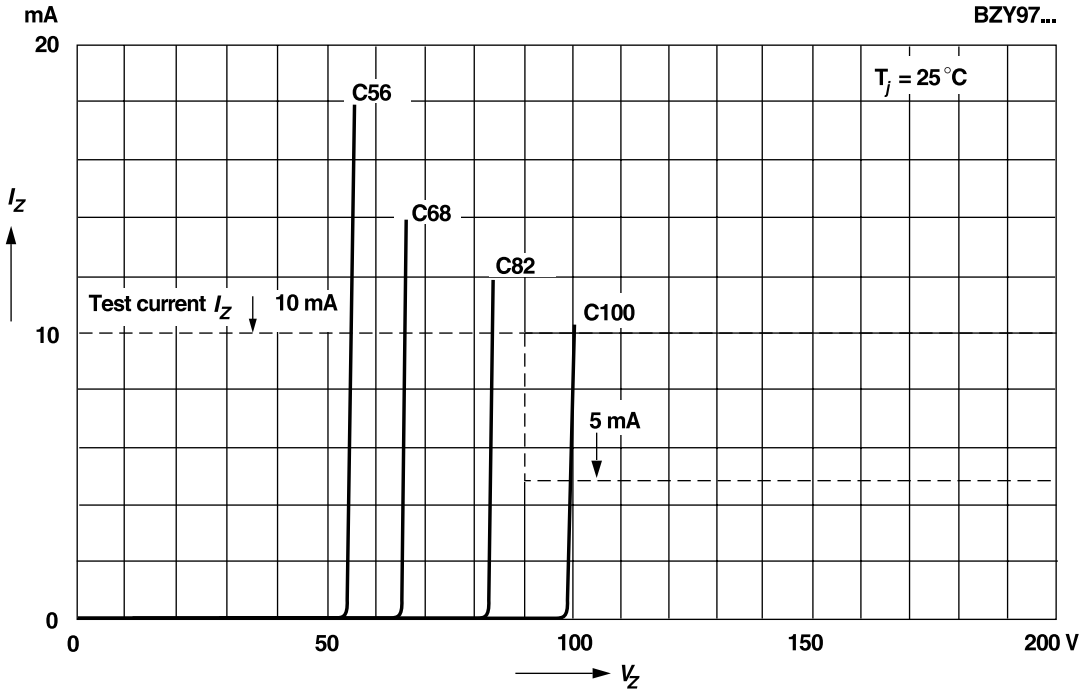
Breakdown characteristics

$T_j = \text{constant (pulsed)}$



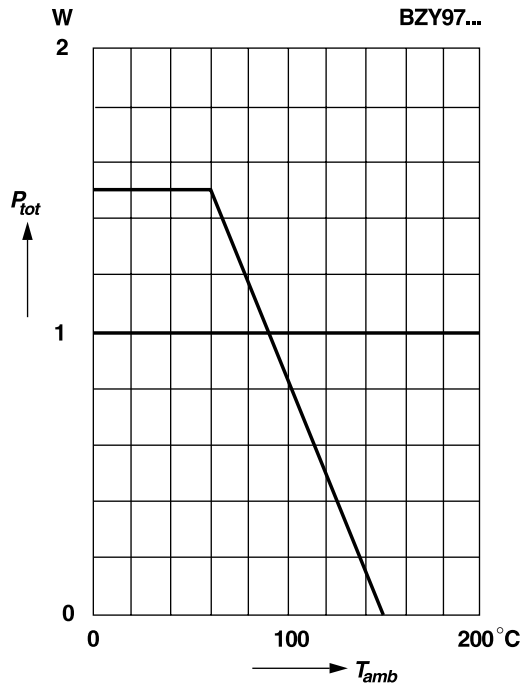
Breakdown characteristics

$T_j = \text{constant (pulsed)}$



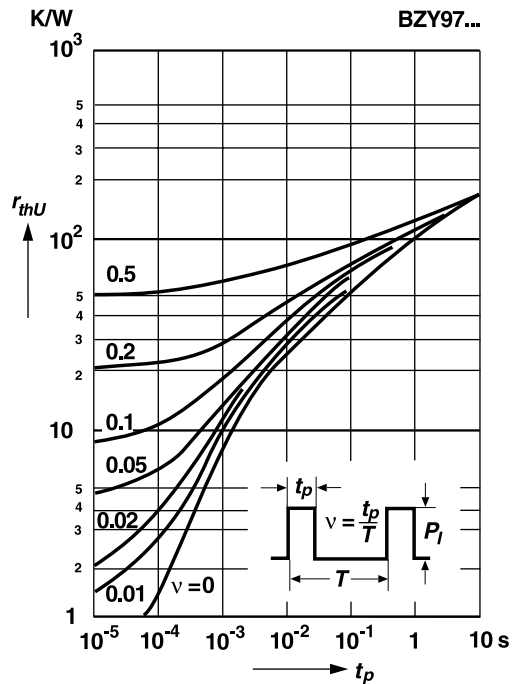
Admissible power dissipation versus ambient temperature

For conditions, see footnote in table
 "Absolute Maximum Ratings"



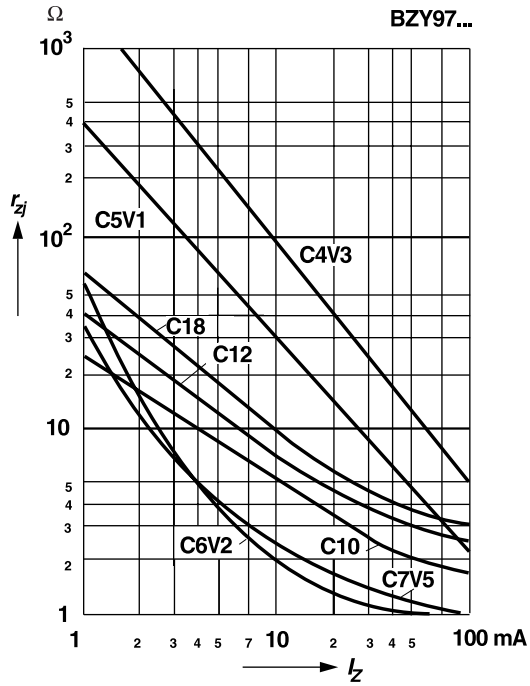
Pulse thermal resistance versus pulse duration

For conditions, see footnote in table
 "Absolute Maximum Ratings"

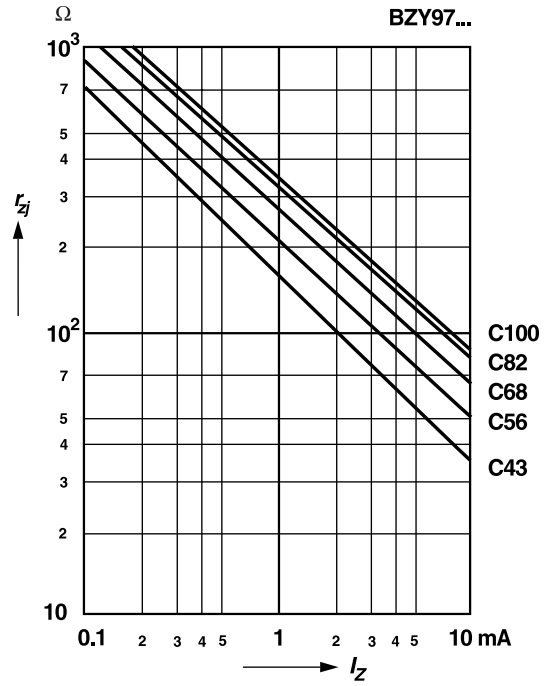


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RATINGS AND CHARACTERISTIC CURVES BZY97-C11 THRU BZY97-C68

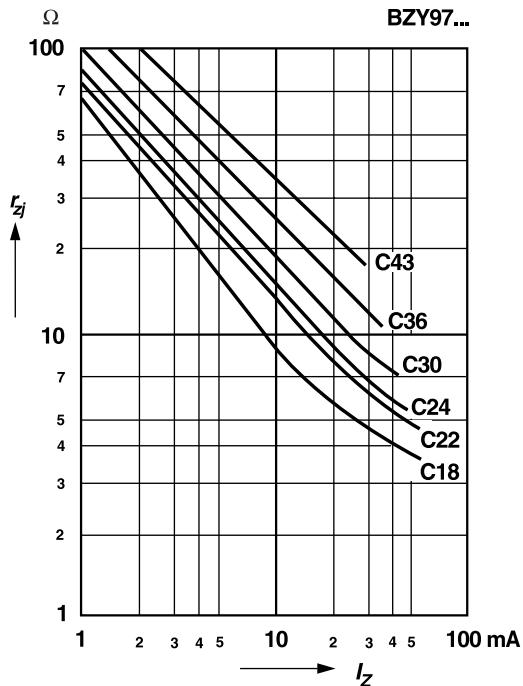
Dynamic resistance
 versus Zener current



Dynamic resistance
 versus Zener current



Dynamic resistance
 versus Zener current



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