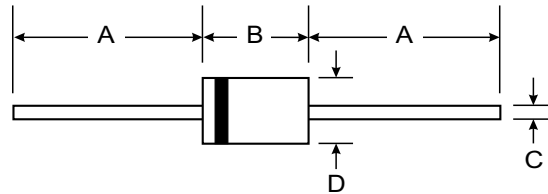


### Features

- Complete voltage range 3.9 to 200 V
- For use in stabilizing and clipping circuits with high power rating.
- Smaller voltage tolerances are available upon request.



### Mechanical Data

- Case: JEDEC DO-41, molded plastic
- Terminals: Axial leads solderable per MIL-STD-202, Method 208
- Polarity: Color band denotes cathode end
- Weight: 0.012 ounces, 0.34 grams
- Mounting position: any

DO-41		
Dim	Min	Max
A	25.40	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics @ T<sub>A</sub> = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit
Power dissipation at T <sub>A</sub> =60 (Note 1)	P <sub>tot</sub>	1.5	W
Maximum thermal resistance junction to ambient	R <sub>θJA</sub>	60	K/W
Junction temperature	T <sub>J</sub>	-55 to +150	
Storage temperature range	T <sub>STG</sub>	-55 to +150	

## Electrical Characteristics

Part Number	Device marking code	Zener Voltage Range <sup>1)</sup>		Dynamic Resistance	Temperature Coefficient of Zener Voltage	Test Current	Leakage Current	Reverse Voltage	Admis. Zener Current	
		$V_{Z@I_{ZT}}$		$r_{zj}@I_{ZT}, f=1kHz$	@ $I_{ZT}$	$I_{ZT}$	$I_R$	$V_R$	$I_Z$ @ $T_{amb}=60^{\circ}C$	$I_{ZSM}, tp=10ms$
		V	V	$\Omega$	$Avz(10^{-4}/K)$	m A	$\mu A$	V	m A	A
		Min.	Max.		typ					
BZY97C3V9	Z3V9D5	3.7	4.1	7.0	-0.025	100	15	1.0	366	3.7
BZY97C4V3	Z4V3D5	4.0	4.6	7.0	-0.020	100	10	1.0	327	3.4
BZY97C4V7	Z4V7D5	4.4	5.0	7.0	-0.020	100	5.0	1.0	300	3.1
BZY97C5V1	Z5V1D5	4.8	5.4	5.0	-0.010	100	3.0	1.0	278	2.8
BZY97C5V6	Z5V6D5	5.2	6.0	2.0	0.020	100	1.0	1.0	250	2.6
BZY97C6V2	Z6V2D5	5.8	6.6	2.0	0.050	100	1.0	1.0	227	2.3
BZY97C6V8	Z6V8D5	6.4	7.2	2.0	0.350	100	1.0	1.0	208	2.1
BZY97C7V5	Z7.5D5	7.0	7.9	2.0	0.350	100	1.0	2.0	190	1.9
BZY97C8V2	Z8V2D5	7.7	8.7	2.0	0.055	100	1.0	3.5	175	1.8
BZY97C9V1	Z9V1D5	8.5	9.6	4.0	0.055	50	1.0	3.5	156	1.6
BZY97C10	Z10D5	9.4	10.	4.0	0.070	50	1.0	5.0	142	1.4
BZY97C11	Z11D5	10.4	11.6	7.0	+5 to +10	50	1.0	5.0	129	1.3
BZY97C12	Z12D5	11.4	12.7	7.0	+5 to +10	50	1.0	7.0	118	1.2
BZY97C13	Z13D5	12.4	14.1	10	+5 to +10	50	1.0	7.0	106	1.1
BZY97C15	Z15D5	13.8	15.8	10	+5 to +10	50	1.0	10	96	1.0
BZY97C16	Z16D5	15.3	17.1	15	+6 to +11	25	1.0	10	88	0.90
BZY97C18	Z18D5	16.8	19.1	15	+6 to +11	25	1.0	10	79	0.81
BZY97C20	Z20D5	18.8	21.2	15	+6 to +11	25	1.0	10	71	0.73
BZY97C22	Z22D5	20.8	23.3	15	+6 to +11	25	1.0	12	64	0.66
BZY97C24	Z24D5	22.8	25.6	15	+6 to +11	25	1.0	12	59	0.60
BZY97C27	Z27D5	25.1	28.9	15	+6 to +11	25	1.0	14	52	0.53
BZY97C30	Z30D5	28	32	15	+6 to +11	25	1.0	14	47	0.48
BZY97C33	Z33D5	31	35	15	+6 to +11	25	1.0	17	43	0.44
BZY97C36	Z33D5	34	38	40	+6 to +11	10	1.0	17	40	0.4
BZY97C39	Z39D5	37	41	40	+6 to +11	10	1.0	20	37	0.38
BZY97C43	Z43D5	40	46	45	+7 to +12	10	1.0	20	33	0.33
BZY97C47	Z47D5	44	50	45	+7 to +12	10	1.0	24	30	0.31
BZY97C51	Z51D5	48	54	60	+7 to +12	10	1.0	24	28	0.28
BZY97C56	Z56D5	52	60	60	+7 to +12	10	1.0	28	25	0.26
BZY97C62	Z62D5	58	66	80	+7 to +12	10	1.0	28	23	0.23
BZY97C68	Z68D5	64	72	80	+7 to +12	10	1.0	34	21	0.21
BZY97C75	Z75D5	70	79	100	+7 to +12	10	1.0	34	19	0.19
BZY97C82	Z82D5	77	88	100	+7 to +12	10	1.0	41	17	0.18
BZY97C91	Z91D5	85	96	200	+8 to +13	5.0	1.0	41	16	0.16
BZY97C100	Z100D5	94	106	200	+8 to +13	5.0	1.0	50	14	0.15
BZY97C110	Z110D5	104	116	250	+8 to +13	5.0	1.0	50	13	0.13
BZY97C120	Z120D5	114	127	250	+8 to +13	5.0	1.0	60	12	0.12
BZY97C130	Z130D5	124	141	300	+8 to +13	5.0	1.0	60	11	0.11
BZY97C150	Z150D5	138	156	300	+8 to +13	5.0	1.0	75	10	0.10
BZY97C160	Z160D5	153	171	350	+8 to +13	5.0	1.0	75	9.0	0.09
BZY97C180	Z180D5	168	191	350	+8 to +13	5.0	1.0	90	8.0	0.08
BZY97C200	Z200D5	188	212	350	+8 to +13	5.0	1.0	90	7.0	0.07