

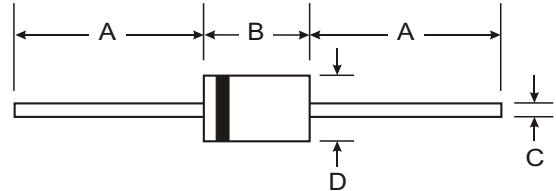
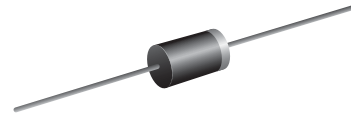
**VOLTAGE RANGE: 3.3 - 240V**  
**POWER: 1.5Watts**

### Features

- Complete Voltage Range 3.3 to 240 Volts
- High peak reverse power dissipation
- High reliability
- Low leakage current

### Mechanical Data

- Case : DO-41 Molded plastic
- Epoxy : UL94V-O rate flame retardant  
 Lead : Axial lead solderable per MIL-STD-202, method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight: 0.35 grams (approx.)



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 @ T<sub>A</sub> = 25°C unless otherwise specified

Rating	Symbol	Value	Unit
DC Power Dissipation at T <sub>L</sub> = 75 °C (Note1)	P <sub>D</sub>	1.5	Watts
Maximum Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.5	Volts
Maximum Thermal Resistance Junction to Ambient Air (Note2)	R <sup>θ</sup> <sub>JA</sub>	130	K / W
Junction Temperature Range	T <sub>J</sub>	- 55 to + 175	°C
Storage Temperature Range	T <sub>s</sub>	- 55 to + 175	°C

**Note :**

- (1) T<sub>L</sub> = Lead temperature at 3/8 " (9.5mm) from body
- (2) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



## ELECTRICAL CHARACTERISTICS Rating at = 25 °C ambient temperature unless otherwise specified

TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current
	Vz @ IZT	IZT	ZZT @ IZT	ZZK @ IZK	IZK	IR @ VR		IZM
	(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)	(mA)
BZY97C3.3	3.3	113.6	10	500	1.0	100	1.0	454
BZY97C3.6	3.6	104.2	9.0	500	1.0	75	1.0	416
BZY97C3.9	3.9	96.1	7.5	500	1.0	25	1.0	384
BZY97C4.3	4.3	87.2	6.0	500	1.0	5.0	1.0	348
BZY97C4.7	4.7	79.8	5.0	500	1.0	5.0	1.5	319
BZY97C5.1	5.1	73.5	4.0	500	1.0	5.0	2.0	294
BZY97C5.6	5.6	66.9	2.0	500	1.0	5.0	3.0	267
BZY97C6.2	6.2	60.5	2.0	200	1.0	5.0	4.0	241
BZY97C6.8	6.8	55.1	2.5	200	1.0	50	5.2	220
BZY97C7.5	7.5	50.0	3.0	400	0.5	50	6.0	200
BZY97C8.2	8.2	45.7	3.5	400	0.5	50	6.5	182
BZY97C9.1	9.1	41.2	4.0	500	0.5	50	7.0	164
BZY97C10	10	37.5	4.5	500	0.25	50	8.0	150
BZY97C11	11	34.1	5.5	550	0.25	50	8.4	136
BZY97C12	12	31.2	6.5	550	0.25	1.0	9.1	125
BZY97C13	13	28.8	7.0	550	0.25	1.0	9.9	115
BZY97C15	15	25.0	9.0	600	0.25	1.0	11.4	100
BZY97C16	16	23.4	10	600	0.25	1.0	12.2	93
BZY97C18	18	20.8	12	650	0.25	1.0	13.7	83
BZY97C20	20	18.7	14	650	0.25	1.0	15.2	75
BZY97C22	22	17.0	17.5	650	0.25	1.0	16.7	68
BZY97C24	24	15.6	19	700	0.25	1.0	18.2	62
BZY97C27	27	13.9	23	700	0.25	1.0	20.6	55
BZY97C30	30	12.5	26	750	0.25	1.0	22.8	50
BZY97C33	33	11.4	33	800	0.25	1.0	25.1	45
BZY97C36	36	10.4	38	850	0.25	1.0	27.4	41
BZY97C39	39	9.6	45	900	0.25	1.0	29.7	38
BZY97C43	43	8.7	53	950	0.25	1.0	32.7	34
BZY97C47	47	8.0	67	1000	0.25	1.0	35.8	31
BZY97C51	51	7.3	70	1100	0.25	1.0	38.8	29
BZY97C56	56	6.7	86	1300	0.25	1.0	42.6	26
BZY97C62	62	6.0	100	1500	0.25	1.0	47.1	24
BZY97C68	68	5.5	120	1700	0.25	1.0	51.7	22
BZY97C75	75	5.0	140	2000	0.25	1.0	56.0	20
BZY97C82	82	4.6	160	2500	0.25	1.0	62.2	18
BZY97C91	91	4.1	200	3000	0.25	1.0	69.2	16
BZY97C100	100	3.7	250	3100	0.25	1.0	76.0	15
BZY97C110	110	3.4	300	4000	0.25	1.0	83.6	13
BZY97C120	120	3.1	380	4500	0.25	1.0	91.2	12
BZY97C130	130	2.9	450	5000	0.25	1.0	98.8	11
BZY97C150	150	2.5	600	6000	0.25	1.0	114.0	10
BZY97C160	160	2.3	700	6500	0.25	1.0	121.6	9.0
BZY97C180	180	2.1	900	7000	0.25	1.0	136.8	8.0
BZY97C200	200	1.9	1200	8000	0.25	1.0	152.0	7.0
BZY97C240	240	1.5	1600	9000	0.25	1.0	182.4	6.0

