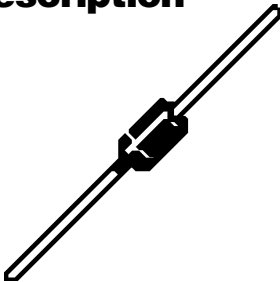
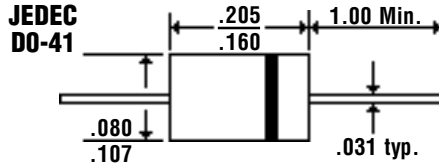


# 2 Watt ZENER DIODES (3.3V to 200V)

## Description



## Mechanical Dimensions



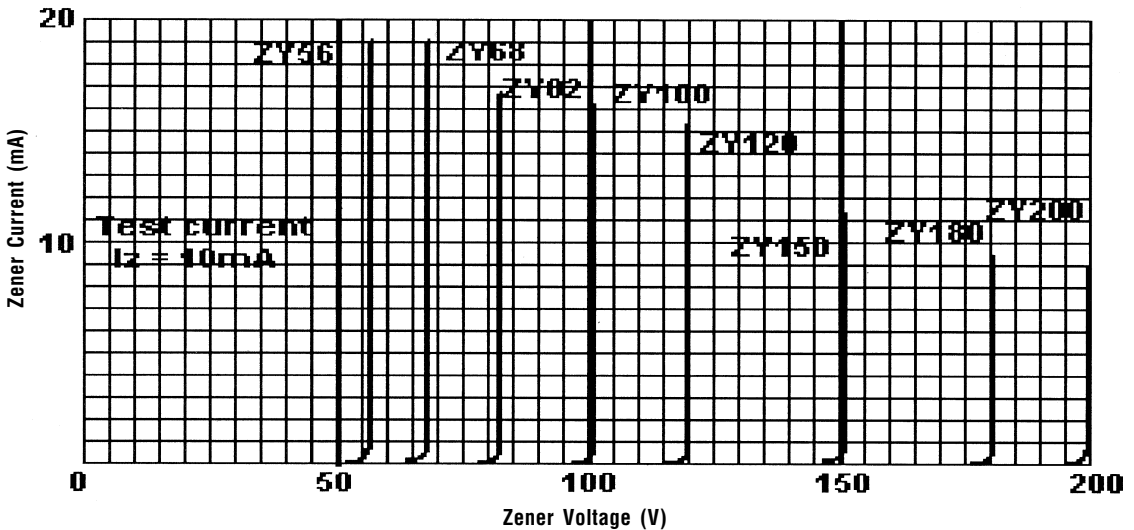
**BZY47C3V3...C200**

## Features

- PRO ELECTRON REGISTRATION
- WIDE VOLTAGE RANGE...3.3 to 200V
- HIGH SURGE CAPABILITY...50 W @ 10mA
- MEETS UL SPECIFICATION 94V-0

Maximum Ratings	BZY47C3V3...C200	Units
DC Power Dissipation with $T_A = 70^\circ\text{C}$ ... $P_D$	2.0	W
Junction to Ambient Thermal Resistance... $R_{\theta JA}$	52.5	$^\circ\text{C} / \text{W}$
Lead Temperature... $T_L$	300	$^\circ\text{C}$
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 175	$^\circ\text{C}$

## Breakdown Characteristics



**BZY47C3V3...C200**

**Electrical Characteristics @ 25°C.**

Part #	Zener Voltage Range	Test Current $I_{ZT}$	Max. Zener Impedance $Z_{ZT} @ I_{ZT} (\Omega)$	Typical Temp. Coeff. (%/°C)	Min. Reverse Voltage @ $I_R = 1\mu A$	Max. Regulator Current @ 45°C $I_{ZR}$
BZY47-C3V3	3.1 - 3.5	100	3.8	- 0.06	0.5	435
BZY47-C3V6	3.4 - 3.8	100	3.8	- 0.06	0.5	385
BZY47-C3V9	3.7 - 4.1	100	3.8	- 0.06	0.5	345
BZY47-C4V3	4.0 - 4.6	100	3.8	+/- 0.03	1.0	320
BZY47-C4V7	4.4 - 5.0	100	3.8	+/- 0.03	1.0	310
BZY47-C5V1	4.8 - 5.4	100	2	+/- 0.035	1.0	280
BZY47-C5V6	5.2 - 6.0	100	1	+/- 0.035	2.0	255
BZY47-C6V2	5.8 - 6.6	100	1	+/- 0.035	2.0	235
BZY47-C6V8	6.4 - 7.2	100	1	+/- 0.035	2.0	220
BZY47-C7V5	7.0 - 7.9	100	2	+/- 0.035	2.0	200
BZY47-C8V2	7.7 - 8.7	50	2	+/- 0.055	3.5	180
BZY47-C9V1	8.5 - 9.6	50	4	+/- 0.065	3.5	165
BZY47-C10	9.4 - 10.6	50	4	+/- 0.070	5.0	145
BZY47-C11	10.4 - 11.6	50	7	+/- 0.075	5.0	135
BZY47-C12	11.4 - 12.7	50	7	+/- 0.075	7.0	120
BZY47-C13	12.4 - 14.1	50	10	+/- 0.075	7.0	110
BZY47-C15	13.8 - 15.8	50	10	+/- 0.075	10	98
BZY47-C16	15.3 - 17.1	25	15	+/- 0.085	10	90
BZY47-C18	16.8 - 19.1	25	15	+/- 0.085	10	80
BZY47-C20	18.8 - 21.2	25	15	+/- 0.085	10	72
BZY47-C22	20.8 - 23.3	25	15	+/- 0.085	12	66
BZY47-C24	22.8 - 25.6	25	15	+/- 0.085	12	50
BZY47-C27	25.1 - 28.9	25	15	+/- 0.085	14	53
BZY47-C30	28 - 32	25	15	+/- 0.085	14	48
BZY47-C33	31 - 35	25	15	+/- 0.085	17	44
BZY47-C36	34 - 38	10	40	+/- 0.085	17	40
BZY47-C39	37 - 41	10	40	+/- 0.085	20	37
BZY47-C43	40 - 46	10	45	+/- 0.095	20	33
BZY47-C47	44 - 50	10	45	+/- 0.095	24	30
BZY47-C51	48 - 54	10	60	+/- 0.095	24	27
BZY47-C56	52 - 60	10	60	+/- 0.095	28	25
BZY47-C62	58 - 66	10	80	+/- 0.105	28	21
BZY47-C68	64 - 72	10	80	+/- 0.105	34	20
BZY47-C75	70 - 79	10	100	+/- 0.105	34	18
BZY47-C82	77 - 88	10	100	+/- 0.105	41	16
BZY47-C91	85 - 96	5	200	+/- 0.11	41	15
BZY47-C100	94 - 106	5	200	+/- 0.11	50	13
BZY47-C110	104 - 116	5	250	+/- 0.11	50	12
BZY47-C120	114 - 127	5	250	+/- 0.11	60	11
BZY47-C130	124 - 141	5	300	+/- 0.11	60	10
BZY47-C150	138 - 156	5	300	+/- 0.11	75	9
BZY47-C160	153 - 171	5	350	+/- 0.11	75	8.5
BZY47-C180	168 - 191	5	350	+/- 0.11	90	8.0
BZY47-C200	188 - 212	5	350	+/- 0.11	90	7.5