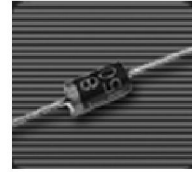


## Features

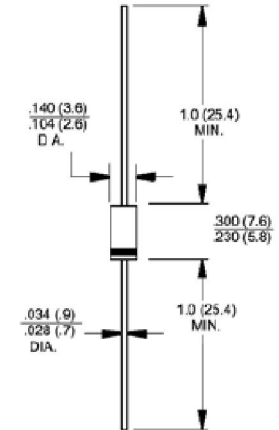
- Power dissipation: max,2.0W
- For use in stabilizing and clipping circuits with high power rating
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s



**DO-204AC (DO-15)**

## Mechanical Data

- Case: JEDEC DO-204AC(DO-15) molded plastic
- Epoxy: UL 94V-0 flame retardant
- Lead: MIL-STD-202E method 208C guaranteed
- Mounting position: Any
- Weight: 0.014ounce, 0.39gram



Dimensions in inches and (millimeters)

## Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Zener Current		(See Next Page)	
Power Dissipation at T <sub>A</sub> =25°C	P <sub>tot</sub>	2.0 <sup>(1)</sup>	W
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	60 <sup>(1)</sup>	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C

### Notes:

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

**Electrical Characteristics** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

MPN	VZ (V) Zener Voltage(2) @ IZT		Norm Zener (V)	Dynamic resistance at IZT	Temp. coeff. of Zener volt. at IZT	Test current IZT (mA)	Reverse voltage at	Admissible Zener current(1) at Tamb = 25°C IZ (mA)
	Min	Max		f = 1 kHz max rzj ( $\Omega$ )	$\alpha_{VZ}$ (10 <sup>-4</sup> / K)		IR= 1 $\mu$ A VR (V)	
ZY9.1	8.5	9.6	9.1	4	+3 ... +8	50	> 5.0	208
ZY11	10.4	11.6	11	7	+5 ... +10	50	> 9.2	135
ZY12	11.4	12.7	12	7	+5 ... +10	50	> 10	120
ZY13	12.4	14.1	13	10	+5 ... +10	50	> 10.7	110
ZY15	13.8	15.8	15	10	+5 ... +10	50	> 12	98
ZY16	15.3	17.1	16	15	+6 ... +11	25	> 13.3	90
ZY18	16.8	19.1	18	15	+6 ... +11	25	> 14.7	80
ZY20	18.8	21.2	20	15	+6 ... +11	25	> 16.5	72
ZY22	20.8	23.3	22	15	+6 ... +11	25	> 18.3	66
ZY24	22.8	25.6	24	15	+6 ... +11	25	> 20.1	60
ZY27	25.1	28.9	27	15	+6 ... +11	25	> 22.5	53
ZY30	28	32	30	15	+6 ... +11	25	> 25.1	48
ZY33	31	35	33	15	+6 ... +11	25	> 27.8	44
ZY36	34	38	36	40	+6 ... +11	10	> 30.2	40
ZY39	37	41	39	40	+6 ... +11	10	> 32.9	37
ZY43	40	46	43	45	+7 ... +12	10	> 35.6	33
ZY47	44	50	47	45	+7 ... +12	10	> 39.2	30
ZY51	48	54	51	60	+7 ... +12	10	> 42.8	27
ZY56	52	60	56	60	+7 ... +12	10	> 47.3	25
ZY62	58	66	62	80	+8 ... +13	10	> 51.7	21
ZY68	64	72	68	80	+8 ... +13	10	> 57.1	20
ZY75	70	79	75	100	+8 ... +13	10	> 63.2	18
ZY82	77	88	82	100	+8 ... +13	10	> 68.6	16
ZY91	85	96	91	200	+9 ... +13	5	> 75.7	15
ZY100	94	106	100	200	+9 ... +13	5	> 83.7	13
ZY110	104	116	110	250	+9 ... +13	5	> 92.6	12
ZY120	114	127	120	250	+9 ... +13	5	> 101.6	11
ZY130	124	141	130	300	+9 ... +13	5	> 110.5	10
ZY150	138	156	150	300	+9 ... +13	5	> 123	9
ZY160	153	171	160	350	+9 ... +13	5	> 136	8.5
ZY180	168	191	180	350	+9 ... +13	5	> 149	8
ZY200	188	212	200	350	+9 ... +13	5	> 167	7.5

Notes:

- (1) Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.
- (2) Tested with pulses  $t_p = 5$  ms.
- (3) The ZY1 is a silicon diode operated in forward direction. Hence, the index of all parameters ratings should be "F" instead of "Z". Connect the cathode lead to the negative pole.

### Typical Electrical Characteristic Curves

