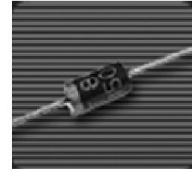


Features

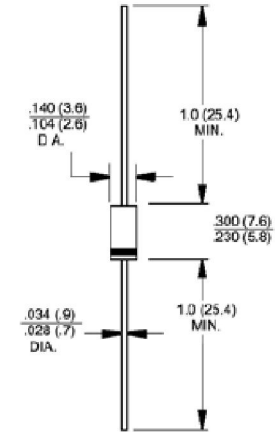
- Power dissipation: max,2.0W
- For use in stabilizing and clipping circuits with high power rating
- Low leakage current
- Moisture sensitivity: level 1, per J-STD-020
- Solder dip 260 °C, 10 s



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 ($T_A=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Zener Current	(See Next Page)		
Power Dissipation at $T_A=25^{\circ}C$	P _{tot}	2.0 ⁽¹⁾	W
Thermal Resistance Junction to Ambient Air	R θ JA	60 ⁽¹⁾	$^{\circ}C/W$
Junction Temperature	T _J	150	$^{\circ}C$
Storage Temperature Range	T _{STG}	-55 to +150	$^{\circ}C$

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 (Ω)	α_{VZ} (10 ⁻⁴ / K)		IR= 1 μ 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

