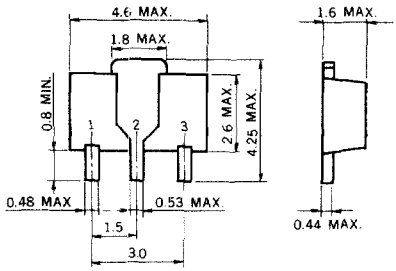
ZENER DIODES
RD2.0P ~ RD120P

1 W POWER MINI MOLD ZENER DIODE

PACKAGE DIMENSIONS
in millimeters (inches)



1. NC
2. Cathode
3. Anode

DESCRIPTION

Type RD2.0P to RD120P Series are Power Mini Mold Package zener diodes possessing an allowable power dissipation of 1 watt.

FEATURES

- Very small size to assure good space factor in hybrid IC applications.
- V_Z; Applied E24 standard.

APPLICATIONS

Circuit for,
Constant Voltage, Constant Current,
Waveform clipper,
Surge absorber, etc.

MAXIMUM RATINGS

Power Dissipation (P) . . . . . 1.0 W
Junction Temperature (T_j) . . . . . 150 °C
Storage Temperature (T_{stg}) . . . . . −55 to +150 °C

ELECTRICAL CHARACTERISTICS (T_a = 25 ± 2 °C)

Type Name	Suffix	Zener Voltage V_Z (V)*			Dynamic Impedance Z_Z (Ω)**		Reverse Current I_R (μA)	
		MIN.	MAX.	I_Z (mA)	MAX.	I_Z (mA)	MAX.	V_R (V)
RD2.0P	B	1.9	2.2	5	140	5	200	0.5
RD2.2P	B	2.1	2.4	5	140	5	200	0.7
RD2.4P	B	2.3	2.6	5	140	5	200	1.0
RD2.7P	B	2.5	2.9	5	140	5	150	1.0
RD3.0P	B	2.8	3.2	5	140	5	100	1.0
RD3.3P	B	3.1	3.5	5	140	5	80	1.0
RD3.6P	B	3.4	3.8	5	140	5	60	1.0
RD3.9P	B	3.7	4.1	5	120	5	40	1.0
RD4.3P	B	4.0	4.5	5	120	5	20	1.0
RD4.7P	B	4.4	4.9	5	100	5	20	1.0
RD5.1P	B	4.8	5.4	5	100	5	20	1.0
RD5.6P	B	5.3	6.0	5	70	5	20	1.5
RD6.2P	B	5.8	6.6	5	40	5	20	3.0
RD6.8P	B	6.4	7.2	5	25	5	20	3.5
RD7.5P	B	7.0	7.9	5	25	5	20	4.0
RD8.2P	B	7.7	8.7	5	25	5	20	5.0
RD9.1P	B	8.5	9.6	5	25	5	20	6.0
RD10P	B	9.4	10.6	5	20	5	10	7.0
RD11P	B	10.4	11.6	5	20	5	10	8.0
RD12P	B	11.4	12.6	5	25	5	10	9.0
RD13P	B	12.4	14.1	5	30	5	10	10
RD15P	B	13.8	15.6	5	30	5	10	11
RD16P	B	15.3	17.1	5	40	5	10	12
RD18P	B	16.8	19.1	5	45	5	10	13
RD20P	B	18.8	21.2	5	55	5	10	15
RD22P	B	20.8	23.3	5	55	5	10	17
RD24P	B	22.8	25.6	5	70	5	10	19
RD27P	B	25.1	28.9	2	80	2	10	21
RD30P	B	28.0	32.0	2	80	2	10	23
RD33P	B	31.0	35.0	2	80	2	10	25
RD36P	B	34.0	38.0	2	90	2	10	27
RD39P	B	37.0	41.0	2	130	2	10	30
RD43P	B	40	45	2	150	2	5	33
RD47P	B	44	49	2	170	2	5	36
RD51P	B	48	54	2	220	2	5	39
RD56P	B	53	60	2	220	2	5	43
RD62P	B	58	66	2	220	2	5	47
RD68P	B	64	72	2	240	2	5	52
RD75P	B	70	79	2	255	2	5	57
RD82P	B	77	87	2	275	2	5	63
RD91P	B	85	96	2	350	2	5	69
RD100P	B	94	106	2	450	2	5	76
RD110P	B	104	116	2	550	2	5	84
RD120P	B	114	126	2	650	2	5	91

* Tested with pulse (40 ms).

** Z_Z is measured at I_Z by given a very small A.C. current signal.

TYPICAL CHARACTERISTICS (T_a = 25 °C)

Fig. 1 P – T_a RATING

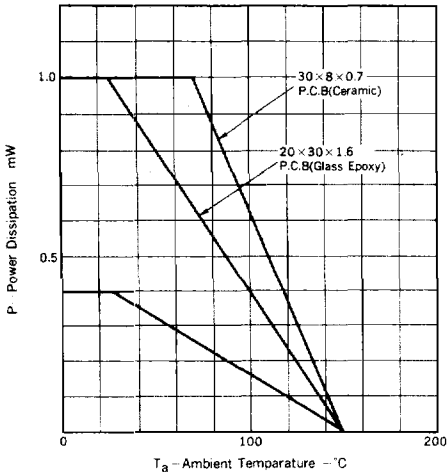
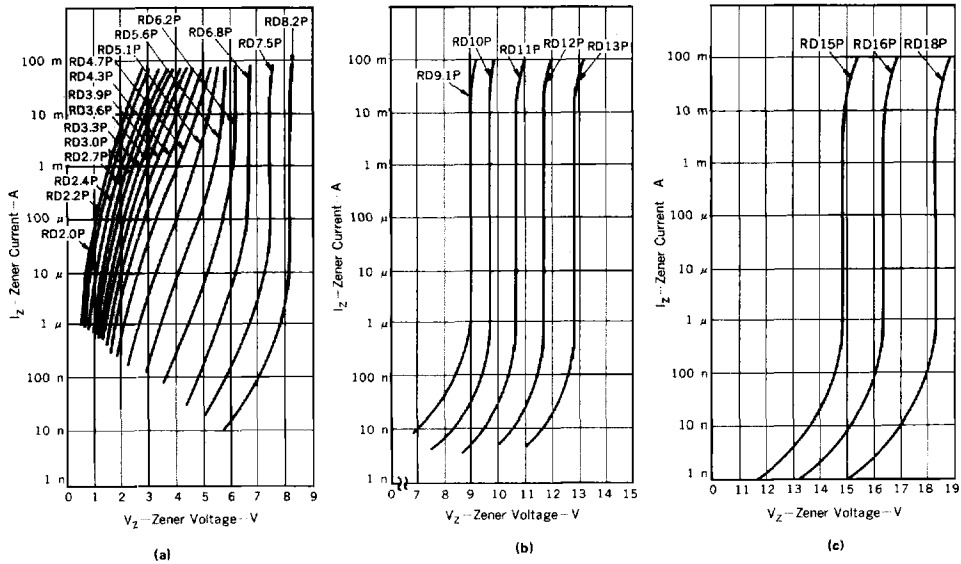


Fig. 2 i_z – v_z CHARACTERISTICS



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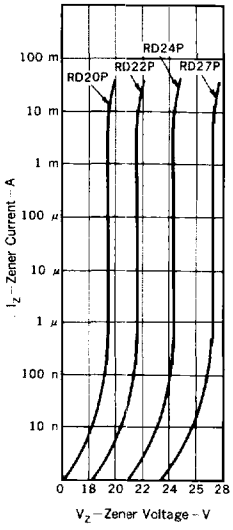
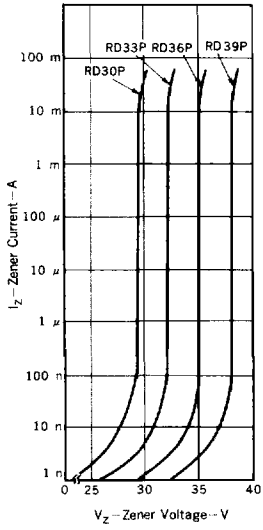
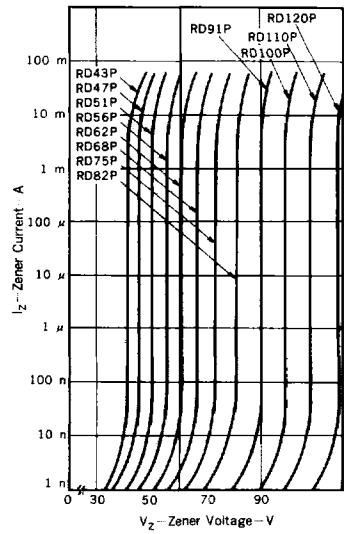


(d)

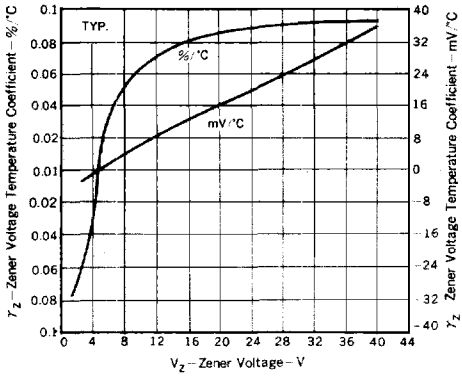


(e)



(f)

Fig. 3 $\gamma_z - V_z$ CHARACTERISTICS



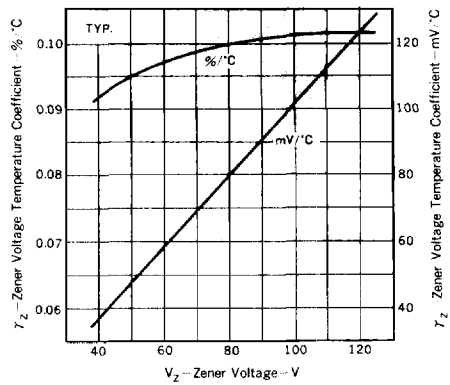
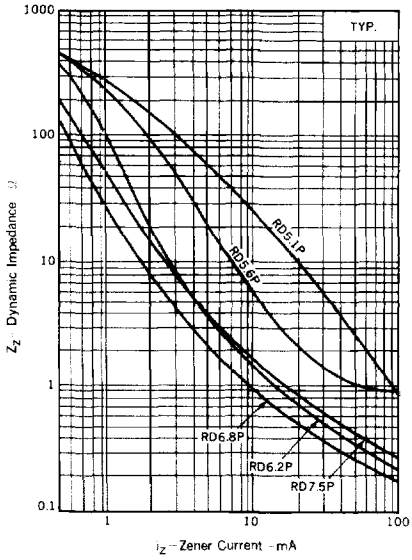
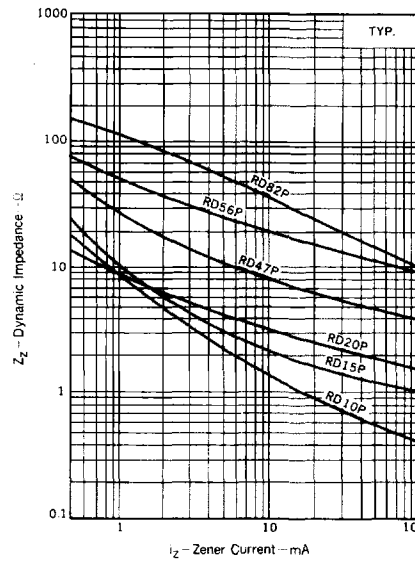


Fig. 4 $Z_z - I_z$ CHARACTERISTICS



(a)



(b)