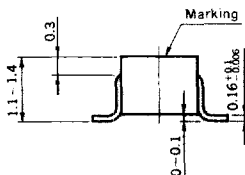
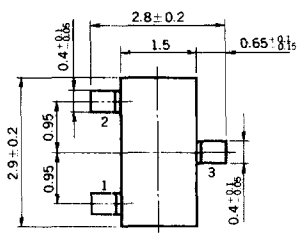


200 mW MINI MOLD ZENER DIODE

in millimeters



1. NC
2. Anode
3. Cathode

Type RD2.0M to RD47M Series are planar type zener diodes processing an allowable power dissipation of 200 mW.

- Very small size to assure good space factor in hybrid IC applications.
- Planar process
- V_T : Applied E24 standard.

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

Power Dissipation (P)	200 mW (See Fig. 4)
Junction Temperature (T_j)	150 °C
Storage Temperature (T_{stg})	-55 to +150 °C

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

Type Number	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)
RD2.0M	B	1.90	2.20	5	100	5	120	0.5
RD2.2M	B	2.10	2.40	5	100	5	120	0.7
RD2.4M	B	2.30	2.60	5	100	5	120	1.0
RD2.7M	B	2.50	2.90	5	110	5	120	1.0
	B1	2.50	2.75					
	B2	2.65	2.90					
RD3.0M	B	2.80	3.20	5	120	5	50	1.0
	B1	2.80	3.05					
	B2	2.95	3.20					
RD3.3M	B	3.10	3.50	5	130	5	20	1.0
	B1	3.10	3.35					
	B2	3.25	3.50					
RD3.6M	B	3.40	3.80	5	130	5	10	1.0
	B1	3.40	3.65					
	B2	3.55	3.80					
RD3.9M	B	3.70	4.10	5	130	5	10	1.0
	B1	3.70	3.97					
	B2	3.87	4.10					
RD4.3M	B	4.01	4.48	5	130	5	10	1.0
	B1	4.01	4.21					
	B2	4.15	4.34					
	B3	4.28	4.48					
RD4.7M	B	4.42	4.90	5	130	5	10	1.0
	B1	4.42	4.61					
	B2	4.55	4.75					
	B3	4.69	4.90					
RD5.1M	B	4.84	5.37	5	130	5	5	1.5
	B1	4.84	5.04					
	B2	4.98	5.20					
	B3	5.14	5.37					
RD5.6M	B	5.31	5.92	5	80	5	5	2.5
	B1	5.31	5.55					
	B2	5.49	5.73					
	B3	5.67	5.92					
RD6.2M	B	5.86	6.53	5	50	5	2	3.0
	B1	5.86	6.12					
	B2	6.06	6.33					
	B3	6.26	6.53					
RD6.8M	B	6.47	7.14	5	30	5	2	3.5
	B1	6.47	6.73					
	B2	6.65	6.93					
	B3	6.86	7.14					
RD7.5M	B	7.06	7.84	5	30	5	2	4.0
	B1	7.06	7.36					
	B2	7.28	7.60					
	B3	7.52	7.84					
RD8.2M	B	7.76	8.64	5	30	5	2	5.0
	B1	7.76	8.10					
	B2	8.02	8.36					
	B3	8.28	8.64					

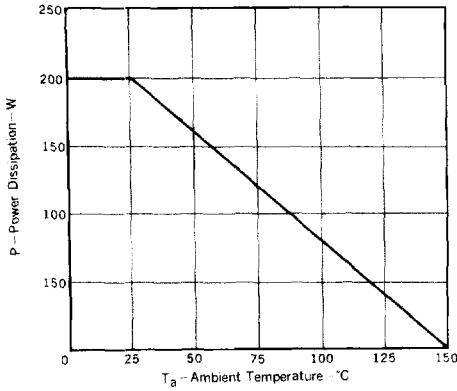
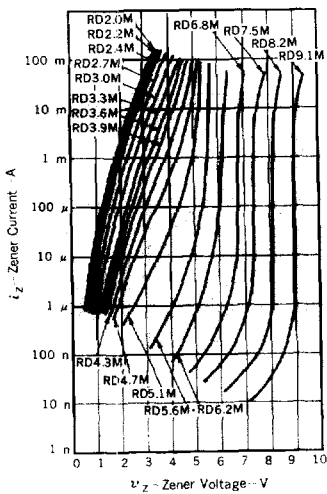
* Tested with pulse (40 ms).

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

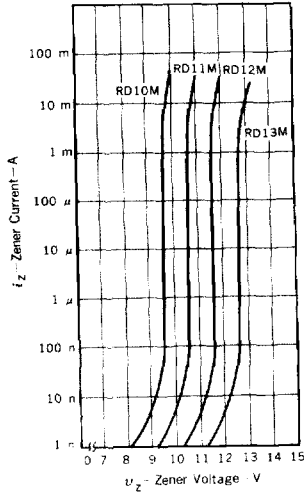
Type Number	Suffix	Zener Voltage V_Z (V)*			Dynamic Impedance Z_Z (Ω)**		Reverse Current I_R (μ A)	
		MIN.	MAX.	I_Z (mA)	MAX.	I_Z (mA)	MAX.	V_R (V)
RD9.1M	B	8.56	9.55	5	30	5	2	6.0
	B1	8.56	8.93					
	B2	8.85	9.23					
	B3	9.15	9.55					
RD10M	B	9.45	10.55	5	30	5	2	7.0
	B1	9.45	9.87					
	B2	9.77	10.21					
	B3	10.11	10.55					
RD11M	B	10.44	11.56	5	30	5	2	8.0
	B1	10.44	10.88					
	B2	10.76	11.22					
	B3	11.10	11.56					
RD12M	B	11.42	12.60	5	35	5	2	9.0
	B1	11.42	11.90					
	B2	11.74	12.24					
	B3	12.08	12.60					
RD13M	B	12.47	13.96	5	35	5	2	10
	B1	12.47	13.03					
	B2	12.91	13.49					
	B3	13.37	13.96					
RD15M	B	13.84	15.52	5	40	5	2	11
	B1	13.84	14.46					
	B2	14.34	14.98					
	B3	14.85	15.52					
RD16M	B	15.37	17.09	5	40	5	2	12
	B1	15.37	16.01					
	B2	15.85	16.51					
	B3	16.35	17.09					
RD18M	B	16.94	19.03	5	45	5	2	13
	B1	16.94	17.70					
	B2	17.56	18.35					
	B3	18.21	19.03					
RD20M	B	18.86	21.08	5	50	5	2	15
	B1	18.86	19.70					
	B2	19.52	20.39					
	B3	20.21	21.08					
RD22M	B	20.88	23.17	5	55	5	2	17
	B1	20.88	21.77					
	B2	21.54	22.47					
	B3	22.23	23.17					
RD24M	B	22.93	25.57	5	60	5	2	19
	B1	22.93	23.96					
	B2	23.72	24.78					
	B3	24.54	25.57					
RD27M	B	25.10	28.90	2	70	2	2	21
RD30M	B	28.00	32.00	2	80	2	2	23
RD33M	B	31.00	35.00	2	80	2	2	25
RD36M	B	34.00	38.00	2	90	2	2	27
RD39M	B	37.00	41.00	2	100	2	2	30
RD43M	B	40.0	45.0	2	130	2	2	33
RD47M	B	44.0	49.0	2	150	2	2	36

* Tested with pulse (40 ms).

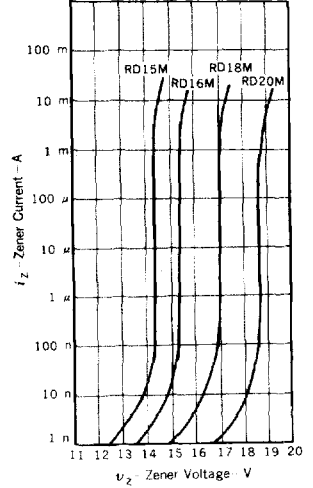
** Z_Z is measured at I_Z by given a very small A.C. current signal.

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)Fig. 1 P - T_a RATINGFig. 2 $i_Z - v_Z$ CHARACTERISTICS (a to c)

(a)



(b)



(c)

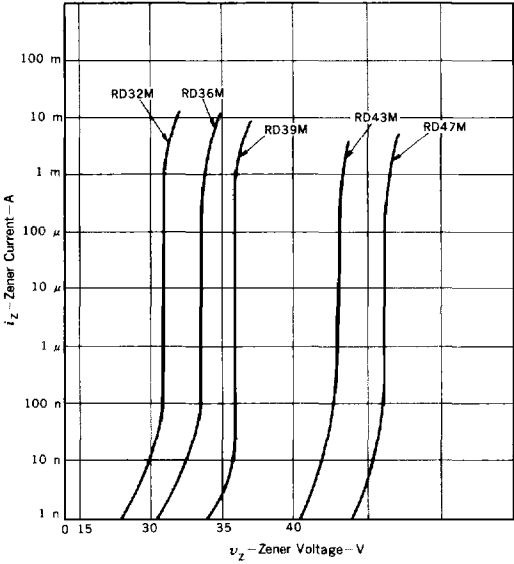
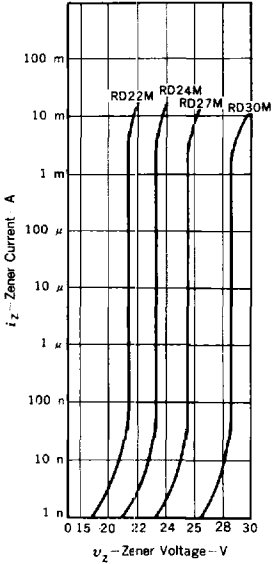


Fig. 3 $\gamma_z - v_z$ CHARACTERISTICS

