

VDZ6.2B

Voltage regulation

- 1) Ultra small mold type (VMD2).
- 2) High reliability.
- 3) By chip-mounter, automatic mounting is possible.

Silicon Epitaxial Planer

Top view dimensions:

- Top width: 0.6 ± 0.05
- Bottom width: 0.27 ± 0.03
- Height from bottom to top of main body: 1.0 ± 0.05
- Total height: 1.4 ± 0.05

Side view dimensions:

- Top thickness: 0.13 ± 0.03
- Bottom thickness: 0.5 ± 0.05

ROHM : VMD2
 (dot (year week factory)) EX. VDZ36B

VMD2

Technical drawing of a mechanical part, likely a shaft or tube, showing dimensions in millimeters. The drawing includes a side view and a cross-sectional view.

Side View Dimensions:

- Overall length: 8.0 ± 0.3 mm
- Distance from left end to first hole: 4 ± 0.1 mm
- Distance between first and second hole: 2 ± 0.05 mm
- Distance between second and third hole: 4 ± 0.1 mm
- Distance between third and fourth hole: 2 ± 0.05 mm
- Distance between fourth and fifth hole: 2 ± 0.05 mm
- Distance from right end to fifth hole: 0.76 ± 0.1 mm
- Overall diameter: $\phi 1.5 \pm 0.1$ mm
- Inner diameter: $\phi 0.5$ mm
- Wall thickness at the right end: 0.18 ± 0.05 mm
- Inner diameter at the right end: 0.3 mm
- Outer diameter at the right end: 0.65 ± 0.05 mm

Cross-sectional View Dimensions:

- Overall diameter: $\phi 1.5 \pm 0.1$ mm
- Inner diameter: $\phi 0.5$ mm
- Wall thickness at the right end: 0.18 ± 0.05 mm
- Inner diameter at the right end: 0.3 mm
- Outer diameter at the right end: 0.65 ± 0.05 mm

Parameter	Symbol	Limits	Unit
Power dissipation	P	100	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C
Operating temperature	T _{opr}	-55 to +150	°C

Diodes

●Electrical characteristics (Ta=25°C)

TYP.	Symbol								
	Zener voltage: Vz(V)			Operating resistance: Zz(Ω)		Rising operating resistance: Zz(Ω)		Reverse current: IR(μA)	
	MIN.	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	VR(V)
VDZ 3.6B	3.600	3.845	5.0	100	5.0	1000	1.0	10.0	1.0
VDZ 3.9B	3.890	4.160	5.0	100	5.0	1000	1.0	5.0	1.0
VDZ 4.3B	4.170	4.430	5.0	100	5.0	1000	1.0	5.0	1.0
VDZ 4.7B	4.550	4.750	5.0	100	5.0	800	0.5	2.0	1.0
VDZ 5.1B	4.980	5.200	5.0	80	5.0	500	0.5	2.0	1.5
VDZ 5.6B	5.490	5.730	5.0	60	5.0	200	0.5	1.0	2.5
VDZ 6.2B	6.060	6.330	5.0	60	5.0	100	0.5	1.0	3.0
VDZ 6.8B	6.650	6.930	5.0	40	5.0	60	0.5	0.5	3.5
VDZ 7.5B	7.280	7.600	5.0	30	5.0	60	0.5	0.5	4.0
VDZ 8.2B	8.020	8.360	5.0	30	5.0	60	0.5	0.5	5.0
VDZ 9.1B	8.850	9.230	5.0	30	5.0	60	0.5	0.5	6.0
VDZ 10B	9.770	10.210	5.0	30	5.0	60	0.5	0.1	7.0
VDZ 11B	10.760	11.220	5.0	30	5.0	60	0.5	0.1	8.0
VDZ 12B	11.740	12.240	5.0	30	5.0	80	0.5	0.1	9.0
VDZ 13B	12.910	13.490	5.0	37	5.0	80	0.5	0.1	10.0
VDZ 15B	14.340	14.980	5.0	42	5.0	80	0.5	0.1	11.0
VDZ 16B	15.850	16.510	5.0	50	5.0	80	0.5	0.1	12.0
VDZ 18B	17.560	18.350	2.0	65	2.0	80	0.5	0.1	13.0
VDZ 20B	19.520	20.390	2.0	85	2.0	100	0.5	0.1	15.0
VDZ 22B	21.540	22.470	2.0	100	2.0	100	0.5	0.1	17.0
VDZ 24B	23.720	24.780	2.0	120	2.0	120	0.5	0.1	19.0
VDZ 27B	26.190	27.530	2.0	150	2.0	150	0.5	0.1	21.0
VDZ 30B	29.190	30.690	2.0	200	2.0	200	0.5	0.1	23.0
VDZ 33B	32.150	33.790	2.0	250	2.0	250	0.5	0.1	25.0
VDZ 36B	35.070	36.870	2.0	300	2.0	300	0.5	0.1	27.0

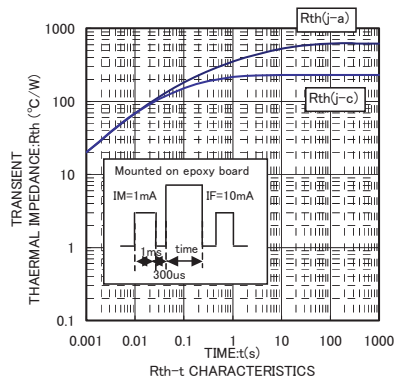
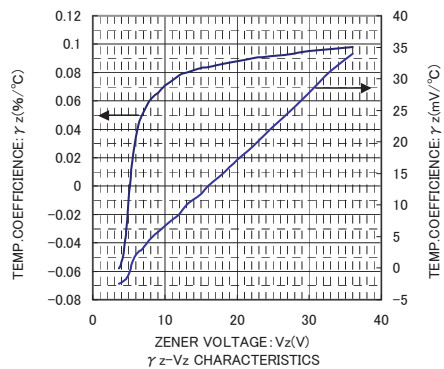
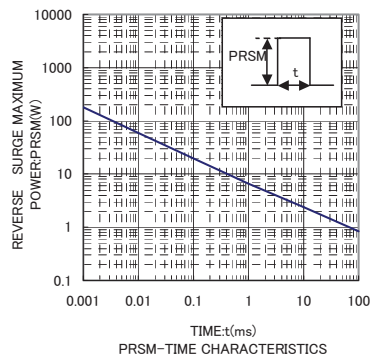
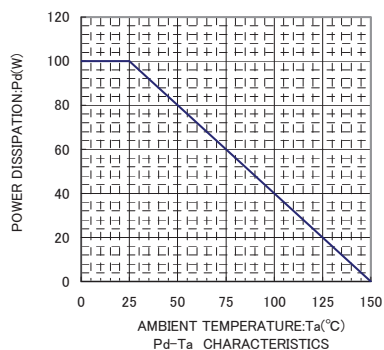
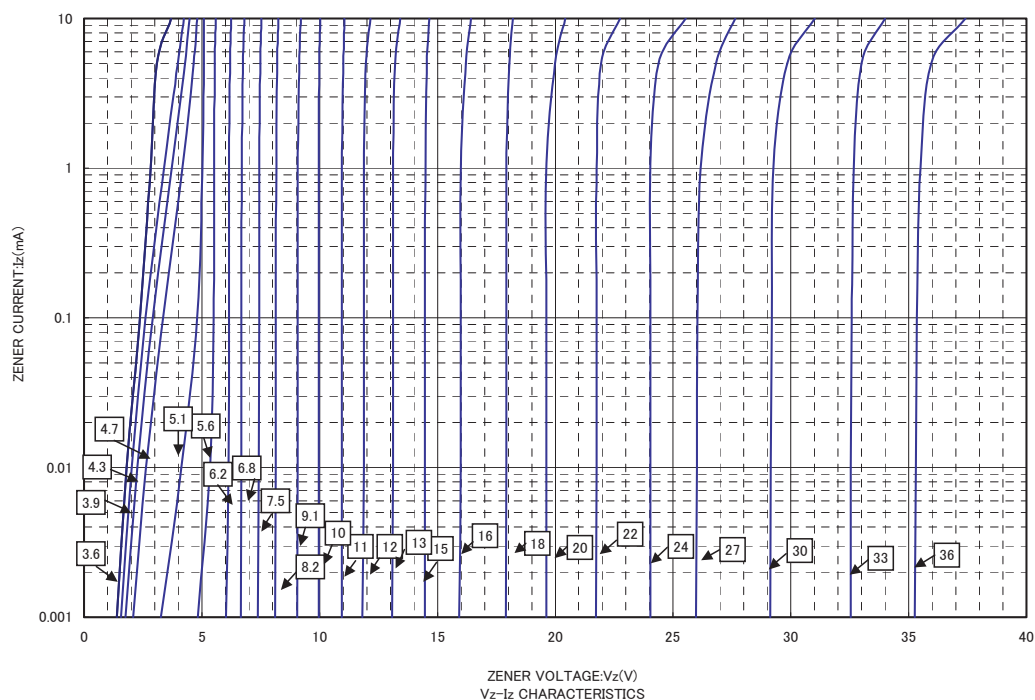
(1) The zener voltage(Vz) is measured 40ms after power is supplied.

(2) The operating resistances(Zz,Zzk) are measured by superimposing a minute alternating current on the regulated current(Iz)

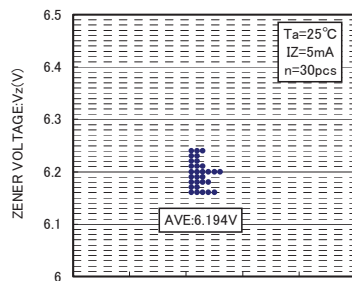
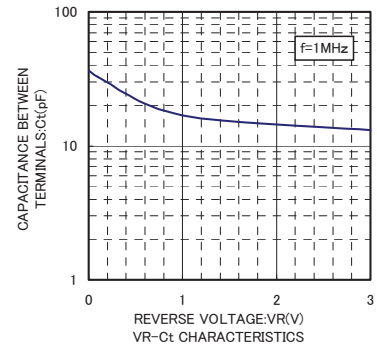
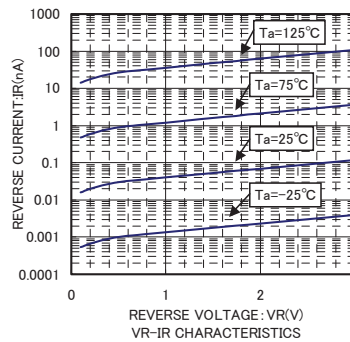
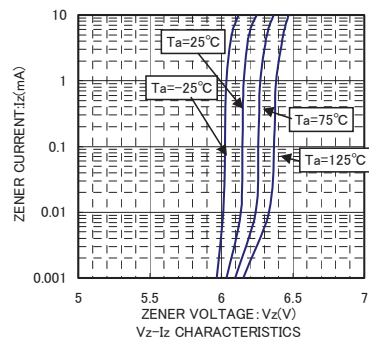
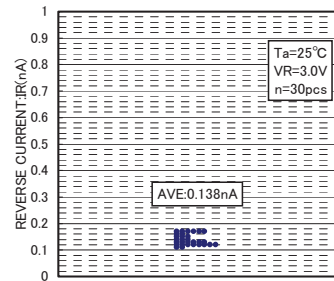
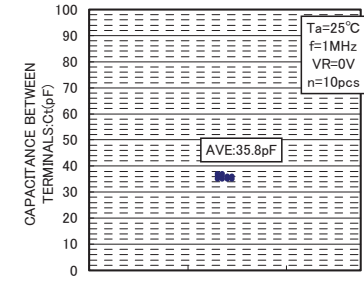
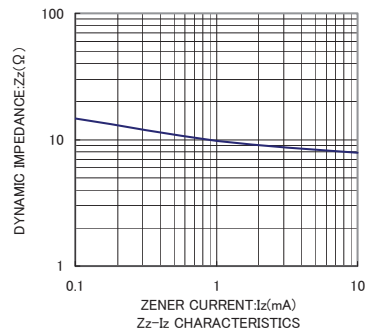
●Type No.

TYPE	TYPE NO.	TYPE	TYPE NO.
VDZ 3.6B	62	VDZ 12B	25
VDZ 3.9B	72	VDZ 13B	35
VDZ 4.3B	82	VDZ 15B	45
VDZ 4.7B	92	VDZ 16B	55
VDZ 5.1B	A2	VDZ 18B	65
VDZ 5.6B	C2	VDZ 20B	75
VDZ 6.2B	E2	VDZ 22B	85
VDZ 6.8B	F2	VDZ 24B	95
VDZ 7.5B	H2	VDZ 27B	A5
VDZ 8.2B	J2	VDZ 30B	C5
VDZ 9.1B	L2	VDZ 33B	E5
VDZ 10B	05	VDZ 36B	F5
VDZ 11B	15		

Diodes



Diodes

 V_z DISPERSION MAP I_R DISPERSION MAP C_t DISPERSION MAP Z_z - I_z CHARACTERISTICS

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