Zener diode

VDZ12B

Application

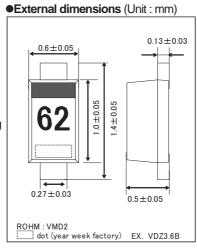
Voltage regulation

Features

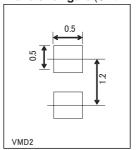
- 1) Ultra small mold type (VMD2).
- 2) High reliability.
- 3) By chip-mounter, automatic mounting is possible.

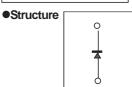
Construction

Silicon Epitaxial Planer

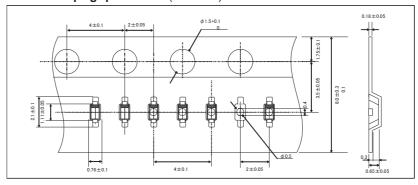


●Land size figure (Unit : mm)









● Absolute maximum ratings (Ta=25°C)

- 7 tibeerate maximum ratinge (ta			
Parameter	Symbol	Limits	Unit
Power dissipation	Р	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
Operating temperature	Topr	-55 to +150	°C

Rev.B

Diodes

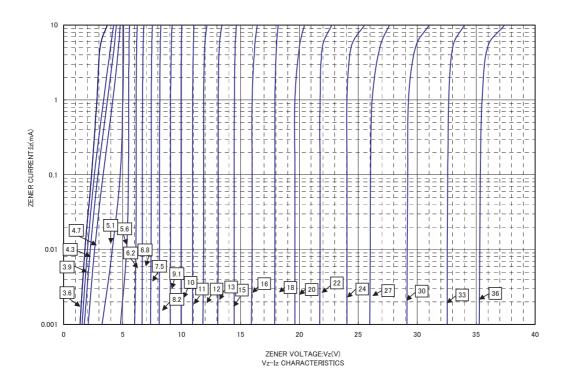
●Electrical characteristics (Ta=25°C)									
	Symbol								
TYP.	TYP. Zener voltage: Vz(V) MIN. MAX. Iz(mA)		Operating resistance: Zz(Ω)		Rising operating resistance: Zz(Ω)		Reverse current: IR(uA)		
			Iz(mA)	MAX.	Iz(mA)	MAX.	Iz(mA)	MAX.	VR(V)
VDZ 3.6B	3.600	3.845	5.0	100	5.0	1000	1.0	10.0	1.0
VDZ 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

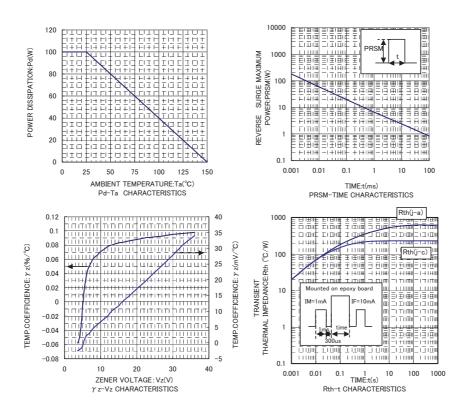
⁽¹⁾ The zener voltage(Vz) is measured 40ms after power is supplied.

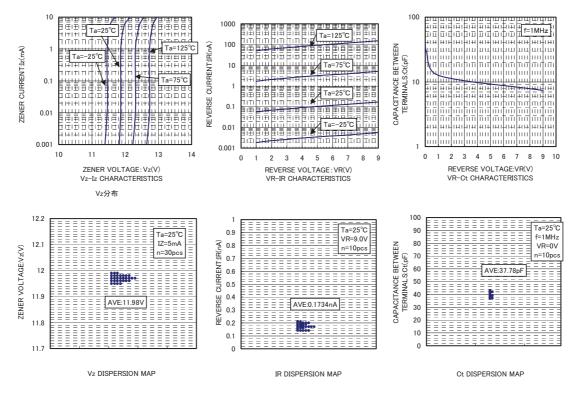
●Type No.

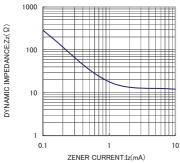
TYPE TYPE NO. DZ 12B 25 DZ 13B 35 DZ 15B 45
/DZ 13B 35
/D7 15D 15
DZ 13B 43
/DZ 16B 55
/DZ 18B 65
/DZ 20B 7 5
/DZ 22B 85
/DZ 24B 95
/DZ 27B A5
/DZ 30B C5
/DZ 33B E5
/DZ 36B F5
/C /C /C

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









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