Zener diode

VDZ10B



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

Construction

Silicon Epitaxial Planer







•Taping specification (Unit : mm)



•Absolute maximum ratings (Ta=25°C)

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				

Diodes

VDZ 13B

VDZ 15B

VDZ 16B

VDZ 18B

VDZ 20B

VDZ 22B

VDZ 24B

VDZ 27B

VDZ 30B

VDZ 33B

VDZ 36B

12.910

14.340

15.850

17.560

19.520

21.540

23.720

26.190

29.190

32.150

35.070

13.490

14.980

16.510

18.350

20.390

22.470

24.780

27.530

30.690

33.790

36.870

Diodes									
●Electrical characteristics (Ta=25°C)									
Symbol									
TYP.	TYP. Zener voltage: Vz(V)		Operating resistance: Zz(Ω)		Rising operating resistance: $Zz(\Omega)$		Reverse current: IR(uA)		
	MIN.	MAX.	lz(mA)	MAX.	lz(mA)	MAX.	lz(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

5.0

5.0

5.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

80

80

80

80

100

100

120

150

200

250

300

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.5

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

0.1

10.0

11.0

12.0

13.0

15.0

17.0

19.0

21.0

23.0

25.0

27.0

37

42

50

65

85

100

120

150

200

250

300

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

5.0

5.0

5.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

(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		



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Appendix1-Rev2.0

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