# Zener diode

## VDZ27B

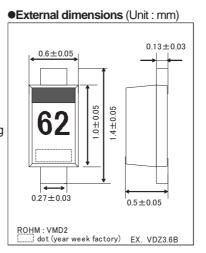


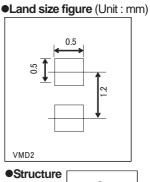
#### Features

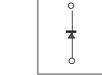
- 1) Ultra small mold type (VMD2).
- 2) High reliability.
- 3) By chip-mounter, automatic mounting is possible.

#### Construction

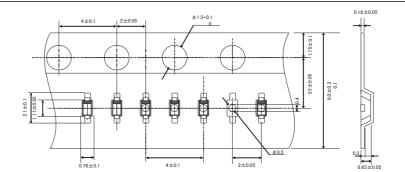
Silicon Epitaxial Planer







#### •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

●Electrical characteristics (Ta=25°C)									
	Symbol								
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
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				
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         24B         95           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	TYPE	TYPE NO.	TYPE	TYPE NO.
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VDZ 10B 05 VDZ 36B F5	VDZ 8.2B	J2	VDZ 30B	C5
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VDZ 11B 15	VDZ 10B	05	VDZ 36B	F5
	VDZ 11B	15		

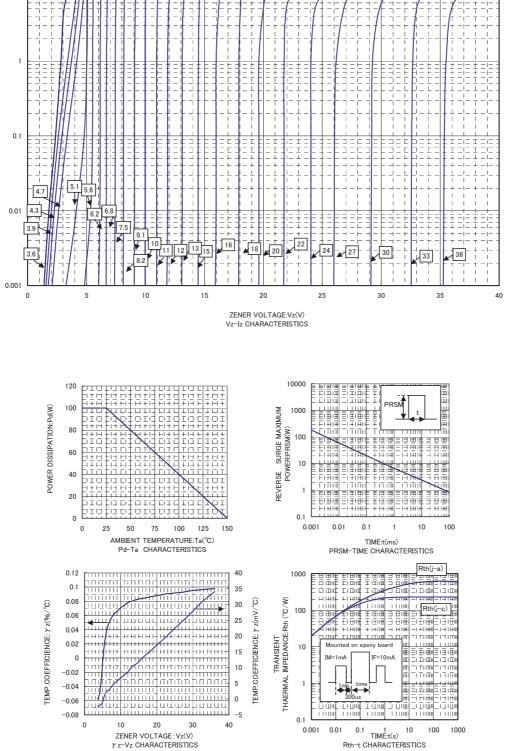
### VDZ27B



ZENER CURRENT:Iz(mA)

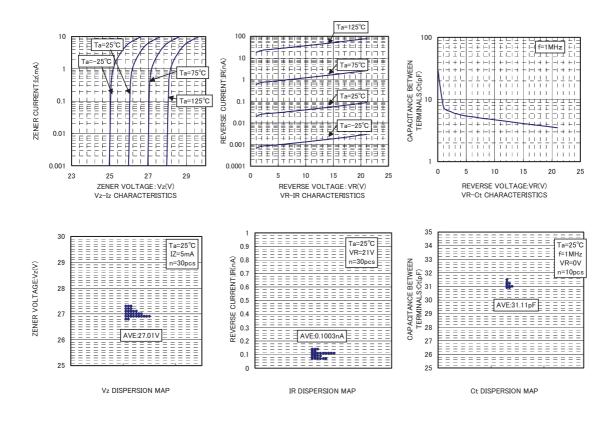
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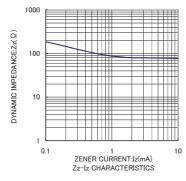
VDZ27B



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