

Zener diode

VMZ6.8N

● Applications

Constant voltage control.

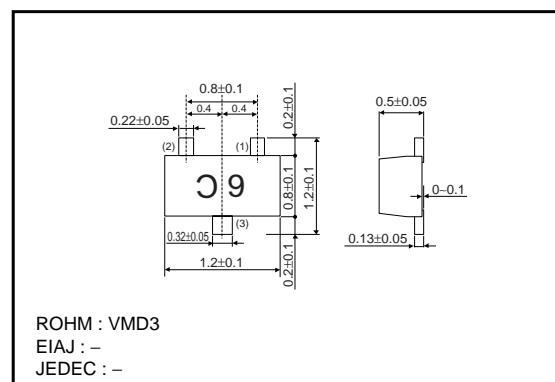
● Features

- 1) Ultra small mold type. (VMD3)
- 2) Composite type with two anode common elements.
- 3) High reliability.

●Construction

Silicon epitaxial planar.

● **External dimensions** (Units : mm)

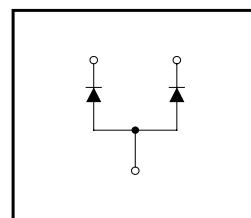


- **Absolute maximum ratings (Ta=25°C)**

Parameter	Symbol	Limits	Unit
Power dissipation*	P	150	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55~+150	°C

* Total of 2 elements

● Equivalent circuit



● Electrical characteristics (Ta=25°C)

Electrical characteristics ($T_A=25^\circ C$)						
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_Z	6.47	—	7.14	V	$I_Z=5\text{mA}$
Reverse current	I_R	—	—	0.5	μA	$V_R=3.5\text{V}$
Capacitance between terminals	C_T	—	9	—	pF	$f=1\text{MHz}$, $V_R=5\text{V}$

● Others

Parameter	IEC61000-4-2	
Device configuration	· Charge / discharge capacitance : 150pF	· Discharge resistance : 330Ω
Judgment contents	· 10 repetitions · No malfunction · Contact : ±8kV · Suspended : ±15kV	

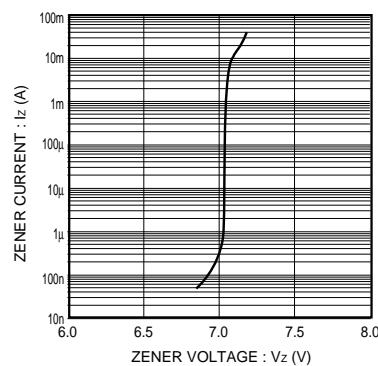
●Electrical characteristic curves ($T_a=25^\circ C$)

Fig.1 Zener current characteristic

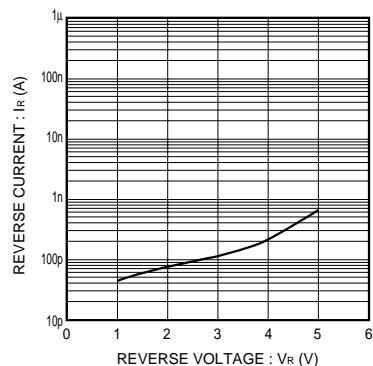


Fig.2 Reverse current characteristics

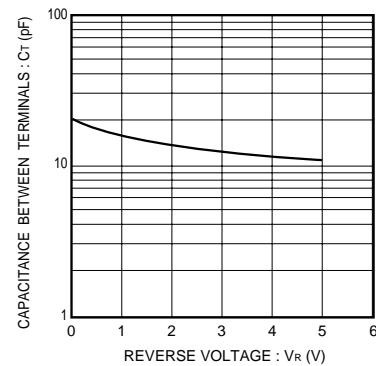


Fig.3 Capacitance between terminals characteristics

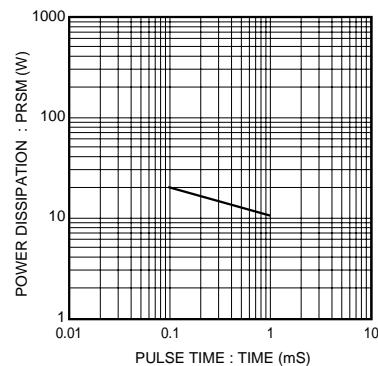


Fig.4 Reverse power dissipation

Appendix

Notes

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