Zener diode

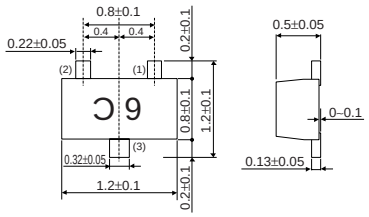
VMZ6.8N

●**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)



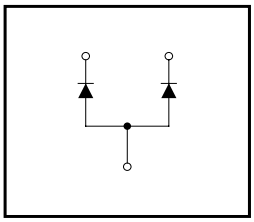
ROHM : VMD3
EIAJ : –
JEDEC : –

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

Parameter	Symbol	Limits	Unit
Power dissipation*	P	150	mW
Junction temperature	Tj	150	˚C
Storage temperature	Tstg	−55~+150	˚C

* Total of 2 elements

●**Equivalent circuit**



●**Electrical characteristics** (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Zener voltage	V_Z	6.47	–	7.14	V	I_Z=5mA
Reverse current	I_R	–	–	0.5	μA	V_R=3.5V
Capacitance between terminals	C_T	–	9	–	pF	f=1MHz, V_R=5V

●**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** (Ta=25°C)

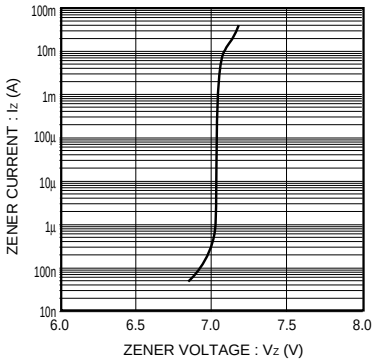


Fig.1 Zener current characteristic

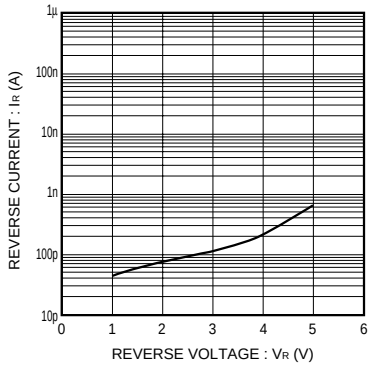


Fig.2 Reverse current characteristics

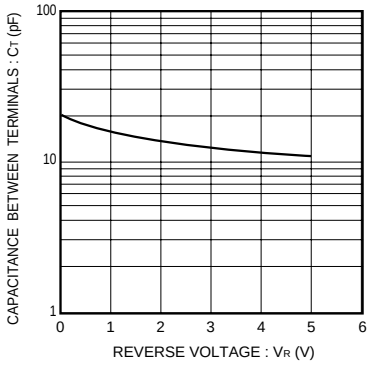


Fig.3 Capacitance between terminals characteristics

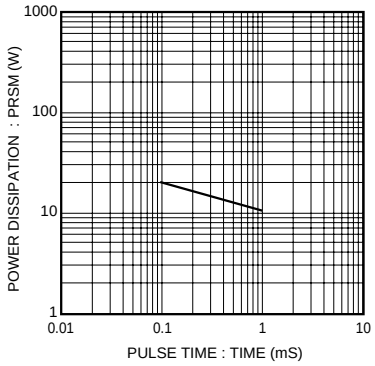


Fig.4 Reverse power disapation