

Zener diode

VMZ6.8N

●Applications

Constant voltage control.

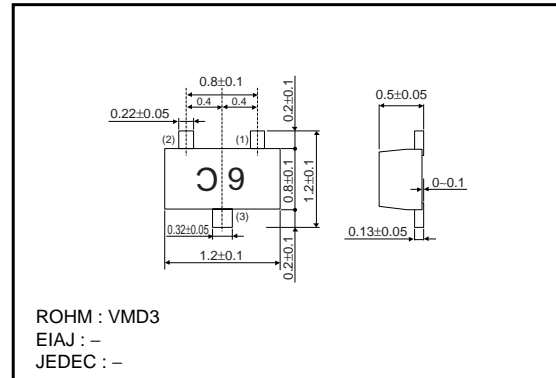
●Features

- 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)

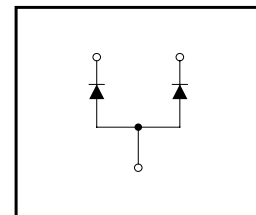


●Absolute maximum ratings (Ta=25°C)

| 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)

| 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 | <ul style="list-style-type: none"> • Charge / discharge capacitance : 150pF • Discharge resistance : 330Ω |
| Judgment contents | <ul style="list-style-type: none"> • 10 repetitions • No malfunction • Contact : ±8kV • Suspended : ±15kV |

Diodes

●Electrical characteristic curves (Ta=25°C)

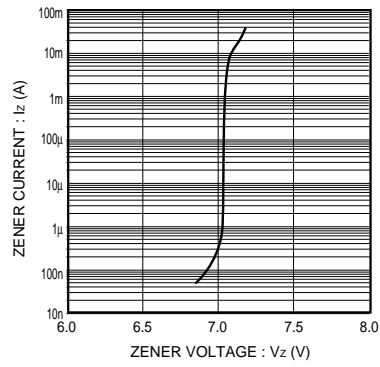


Fig.1 Zener current characteristic

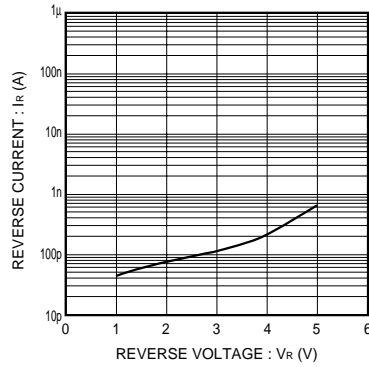


Fig.2 Reverse current characteristics

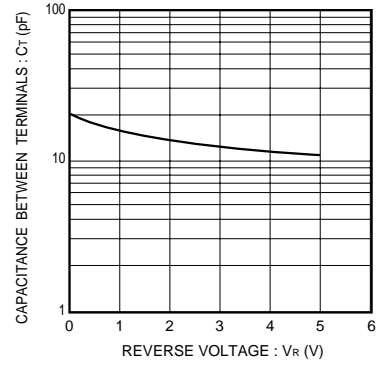


Fig.3 Capacitance between terminals characteristics

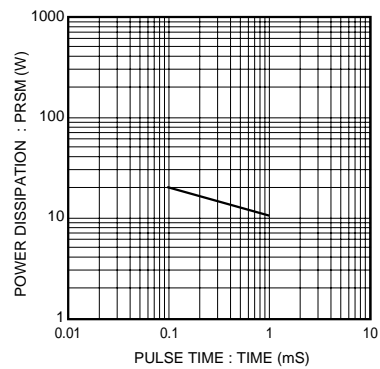


Fig.4 Reverse power dissipation