# **ESD** Protection diode

## **RSB6.8G**

## Application

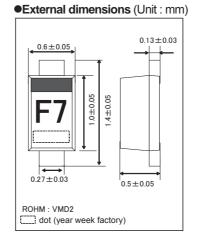
ESD Protection, bi direction

#### Features

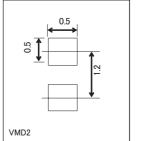
- 1) Ultra small mold type. (VMD2)
- 2) High reliability.
- 3) Bi chip-mounter, automatic mounting is possible.

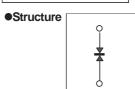
### Construction

Silicon epitaxial planar

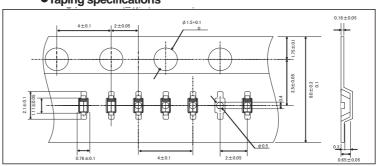


## ●Land size figure (Unit : mm)





## Taping specifications



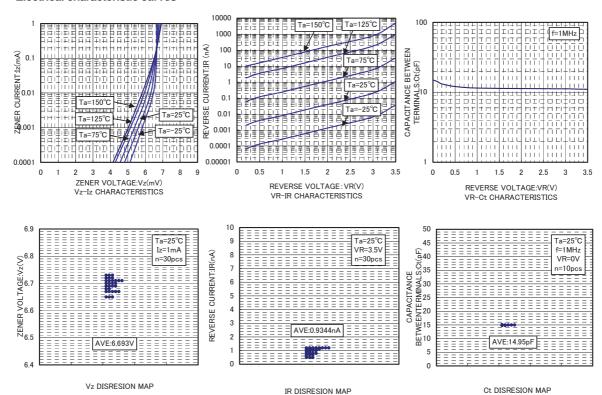
## ● Absolute maximum ratings (Ta=25°C)

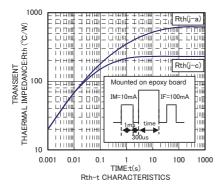
| Parameter                        | Symbol | Limits      | Unit |
|----------------------------------|--------|-------------|------|
| Peak pulse power-1(tp=10×1000µS) | Ppk    | 10          | W    |
| Power dissipation (*1)           | Р      | 100         | mW   |
| Junction temperature             | Tj     | 150         | °C   |
| Storage temperature              | Tstg   | -55 to +150 | °C   |
| Operating temperature            | Topr   | -55 to +150 | °C   |

## ●Electrical characteristics (Ta=25°C, Rating of per diode)

| Parameter                     | Symbol         | Min. | Тур. | Max. | Unit | Conditions                  |
|-------------------------------|----------------|------|------|------|------|-----------------------------|
| Zener voltage                 | $V_Z$          | 5.78 | -    | 7.82 | V    | I <sub>Z</sub> =1mA         |
| Reverse current               | I <sub>R</sub> | -    | -    | 0.50 | μA   | V <sub>R</sub> =3.5V        |
| Capacitance between terminals | Ct             | -    | 15   | -    | pF   | V <sub>R</sub> =0V , f=1MHz |

#### Electrical characteristic curves





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