

## Bi direction ESD Protection Diode

#### RSB33V

#### Applications

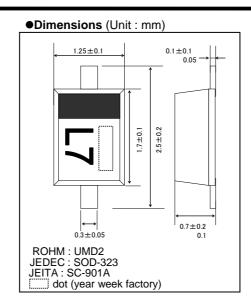
**ESD Protection** 

#### Features

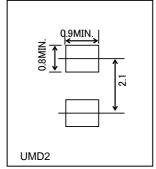
- 1)Small mold type. (UMD2)
- 2)High reliability.
- 3)Bi-directionality.

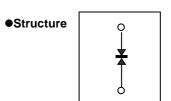
#### Constructions

Silicon epitaxial planer

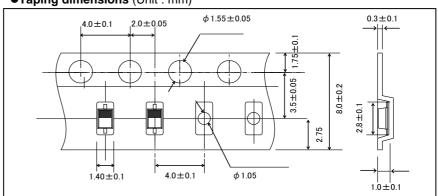


# ●Land size figure (Unit : mm)





#### ●Taping dimensions (Unit: mm)



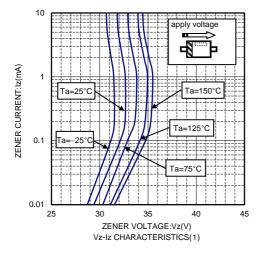
#### ●Absolute maximum ratings (Ta=25°C)

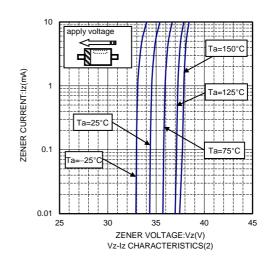
| Parameter            | Symbol | Limits      | Unit |
|----------------------|--------|-------------|------|
| Power dissipation    | Pd     | 200         | mW   |
| Junction temperature | Tj     | 150         | °C   |
| Storage temperature  | Tstg   | −55 to +150 | °C   |

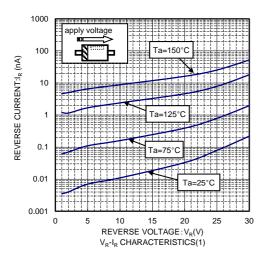
#### ●Electrical characteristics (Ta=25°C)

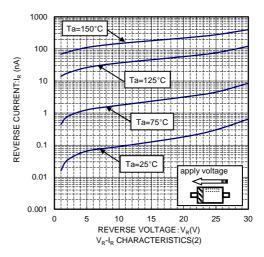
| Parameter            | Symbol         | Min. | Тур. | Max. | Unit | Conditions          |
|----------------------|----------------|------|------|------|------|---------------------|
| Zener voltage        | $V_Z$          | 29.7 | -    | 36.3 | V    | I <sub>Z</sub> =1mA |
| Reverse current      | I <sub>R</sub> | -    | -    | 0.1  | μΑ   | V <sub>R</sub> =25V |
| Junction capacitance | Ct             | -    | -    | 30   | pF   | $V_R=0V$ , f=1MHz   |

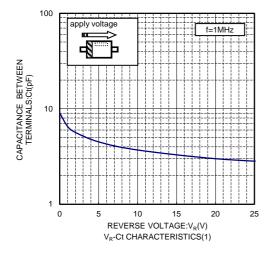
<sup>\*</sup>Zener voltage (Vz)shall be measured at 40ms after loading current.

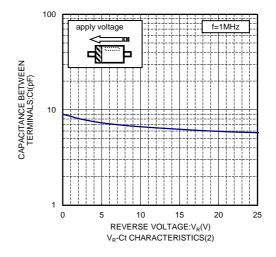


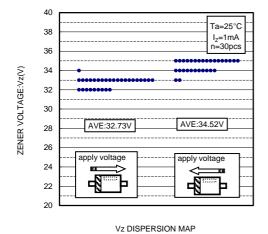


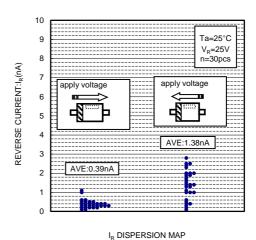


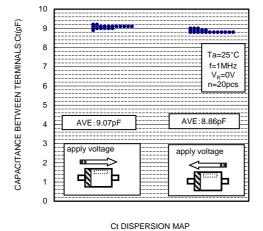


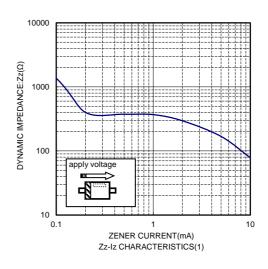


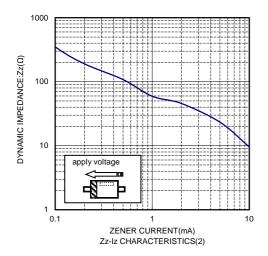


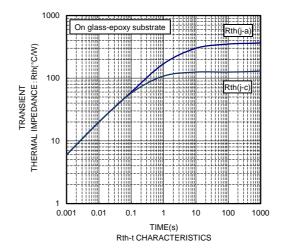


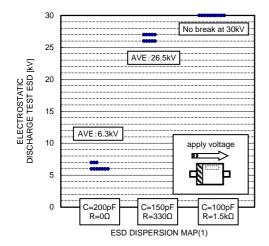


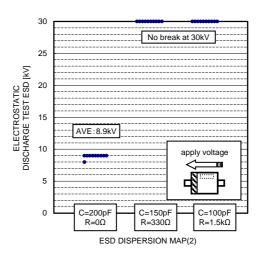












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