# **ESD** Protection diode

# **UMZU6.2N**

# Applications

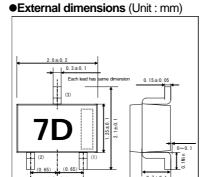
ESD Protection (common anode configuration)

# ● Features

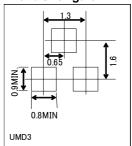
- 1) Small mold type. (UMD3)
- 2) High reliability

# ●Construction

Silicon epitaxial planar



●Land size figure

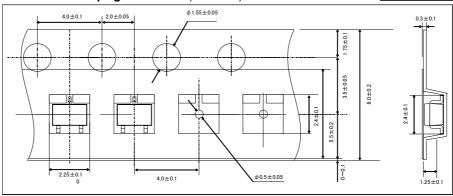


Structure



# ●Taping dimensions (Unit: mm)

ROHM : UMD3
JEDEC : SOT-323
JEITA : SC-70
dot (year week factory)



# ●Absolute maximum ratings (Ta=25°C)

| Parameter            | Symbol | Limits      | Unit |
|----------------------|--------|-------------|------|
| Power dissipation    | P(※)   | 200         | mW   |
| Junction temperature | Tj     | 150         | °C   |
| Storage temperature  | Tstg   | -55 to +150 | °C   |

<sup>(</sup>X)Total of 2 elements

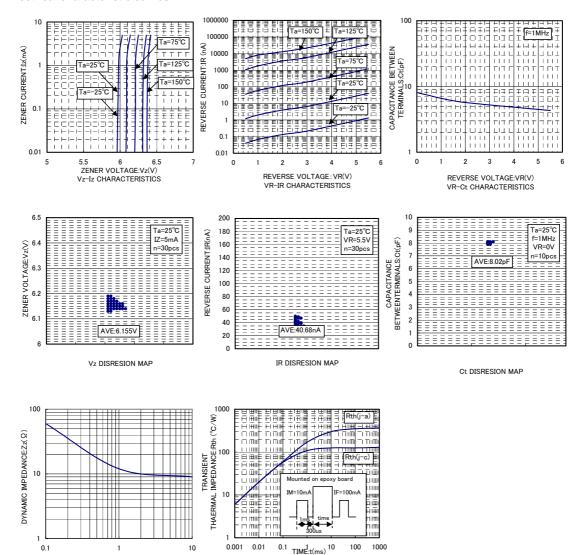
## ●Electrical characteristic (Ta=25°C) (\* Rating of per diode)

| Parameter                     | Symbol         | Min. | Тур. | Max. | Unit | Conditions            |
|-------------------------------|----------------|------|------|------|------|-----------------------|
| Zener voltage                 | $V_Z$          | 5.9  | -    | 6.50 | V    | I <sub>Z</sub> =5mA   |
| Reverse current               | $\mathbf{I}_R$ | -    | -    | 3.00 | μA   | V <sub>R</sub> =5.5V  |
| Operating resistance          | $Z_{Z}$        | -    | -    | 30   | Ω    | Iz=5mA                |
| Rising operating resistance   | Zzk            | -    | -    | 100  | Ω    | I <sub>Z</sub> =0.5mA |
| Capacitance between terminals | Ct             | -    | 8    | -    | pF   | f=1MHz VR=0V          |

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

#### •Electrical characteristic curves

ZENER CURRENT(mA) Zz-Iz CHARACTERISTICS



Rth-t CHARACTERISTICS

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