# ESD Protection diode

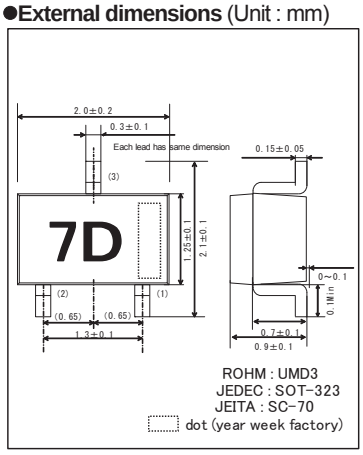
## UMZU6.2N

●**Applications**
ESD Protection
(common anode configuration)

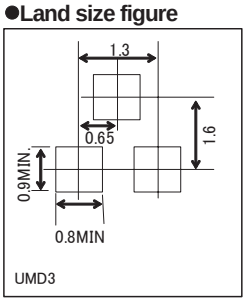
●**Features**
1) Small mold type. (UMD3)
2) High reliability

●**Construction**
Silicon epitaxial planar

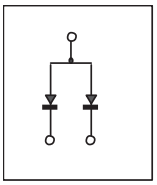
●**External dimensions** (Unit : mm)



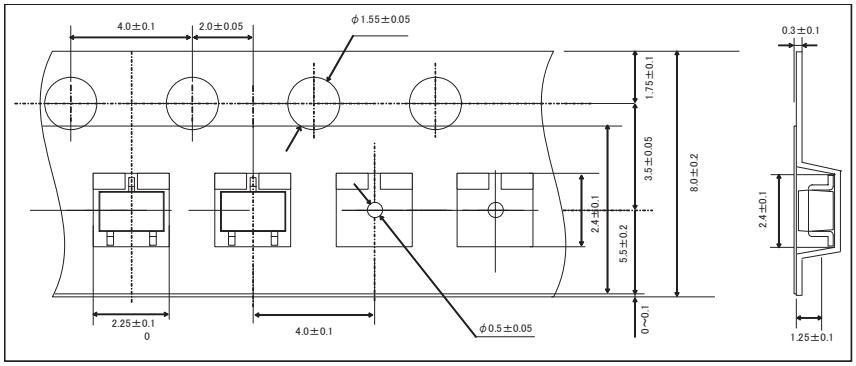

●**Land size figure**




●**Structure**



●**Taping dimensions** (Unit : mm)



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

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

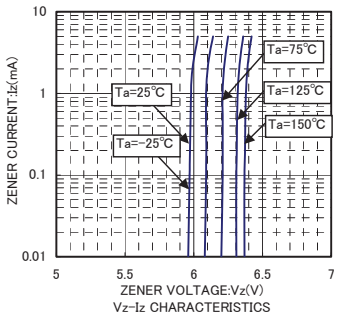
(※)Total of 2 elements

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

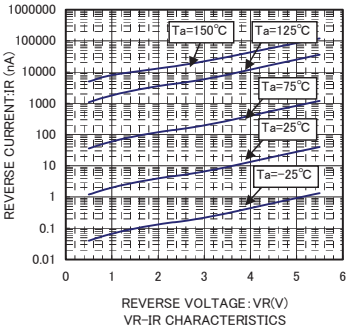
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|---|---|---|---|---|---|---|
| Zener voltage | $V_Z$ | 5.9 | - | 6.50 | V | $I_Z$=5mA |
| Reverse current | $I_R$ | - | - | 3.00 | μA | $V_R$=5.5V |
| Operating resistance | $Z_Z$ | - | - | 30 | Ω | Iz=5mA |
| Rising operating resistance | Zzk | - | - | 100 | Ω | $I_Z$=0.5mA |
| Capacitance between terminals | Ct | - | 8 | - | pF | f=1MHz VR=0V |

*Zener voltage(Vz) shall be measured at 40ms after loading current.

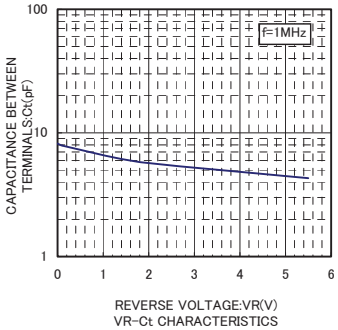
## ●Electrical characteristic curves



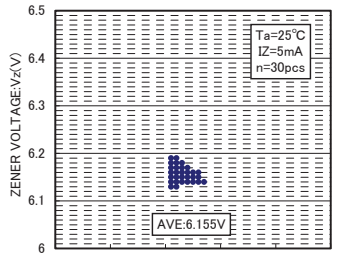

Vz-Iz CHARACTERISTICS



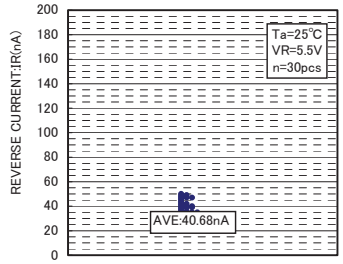

VR-IR CHARACTERISTICS



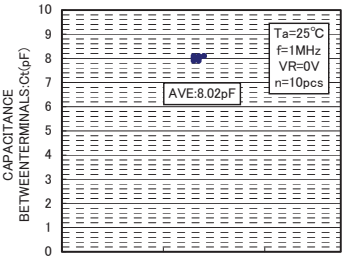

VR-Ct CHARACTERISTICS



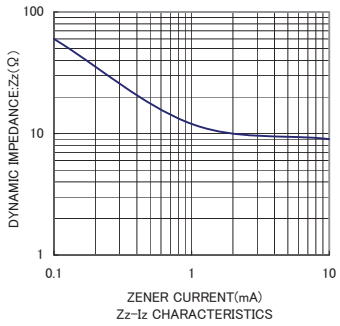

Vz DISRESION MAP



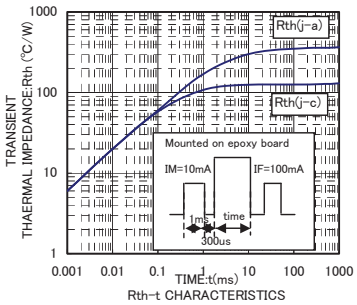

IR DISRESION MAP




Ct DISRESION MAP




Zz-Iz CHARACTERISTICS




Rth-t CHARACTERISTICS

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