

ESD Protection diode

RSA6.1EN

●Application

ESD Protection

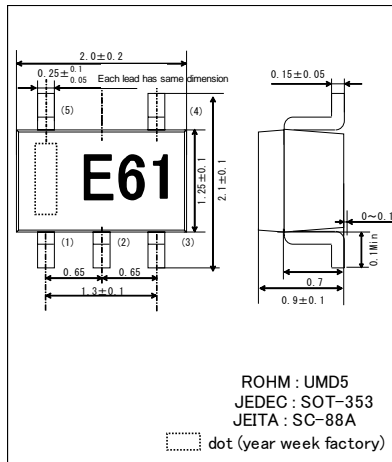
●Features

- 1) Small mold type. (UMD5)
- 2) High reliability.

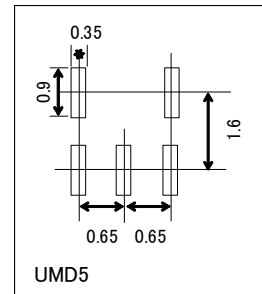
●Construction

Silicon epitaxial planar

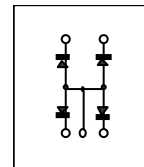
●External dimensions (Unit : mm)



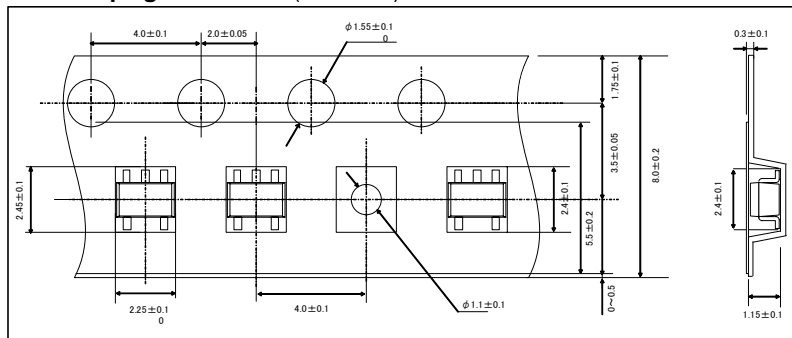
●Lead size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

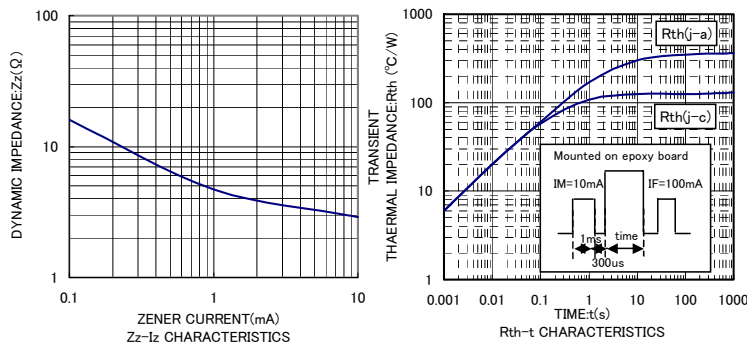
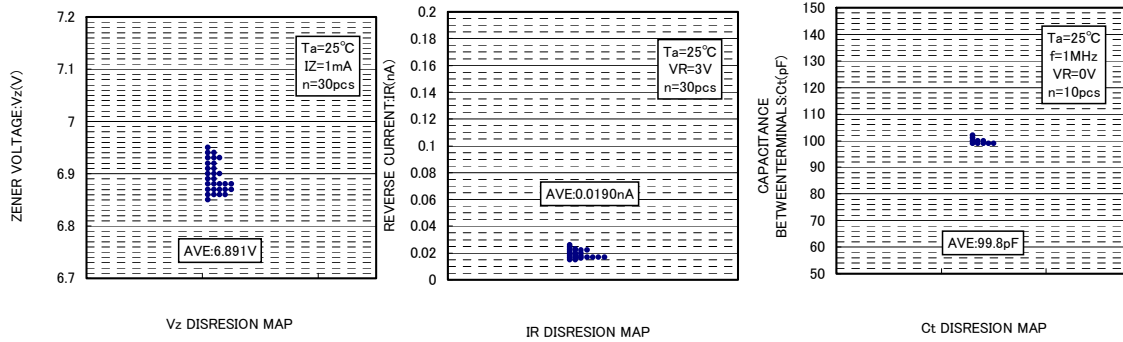
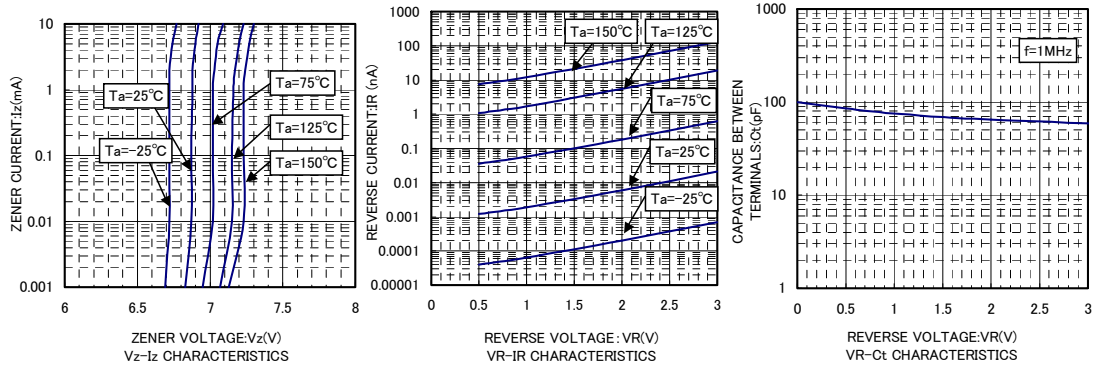
| Parameter | Symbol | Limits | Unit |
|----------------------------------|------------------|-------------|------|
| Power dissipation | P | 200 | mW |
| Peak Pulse Power-1(tp=10×1000us) | P _{pk} | 30 | W |
| Peak Pulse Power-2(tp=8×20us) | P _{pk} | 200 | W |
| Junction temperature | T _j | 150 | °C |
| Storage temperature | T _{stg} | -55 to +150 | °C |

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------------------|----------------|------|------|------|------|----------------------------|
| Zener voltage | V _Z | 6.1 | - | 7.20 | V | I _Z =1mA |
| Reverse current | I _R | - | - | 1.0 | μA | V _R =3.0V |
| Forward voltage | V _F | - | - | 1.25 | V | I _F =200mA |
| Capacitance between terminals | C _t | - | 90 | - | pF | f=1MHz, V _R =0V |

Diodes

●Electrical characteristic curves (Ta=25°C)



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