

Switching diode

1SS400

●Applications

High speed switching

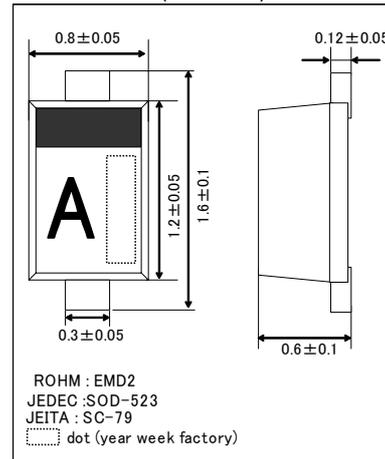
●Features

- 1) Ultra small mold type. (EMD2)
- 2) High reliability.

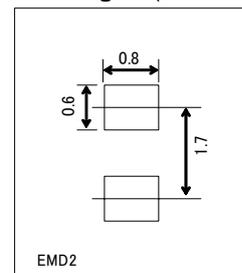
●Construction

Silicon epitaxial planar

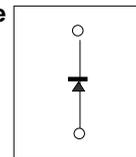
●Dimensions (Unit : mm)



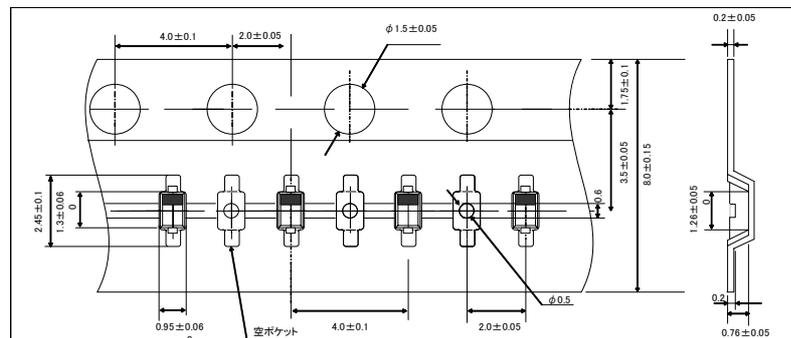
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

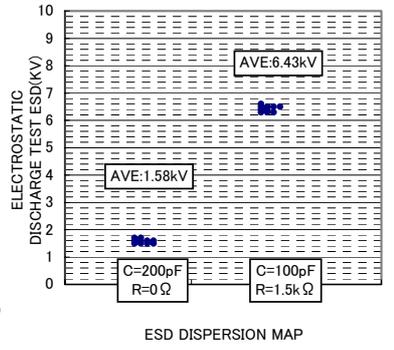
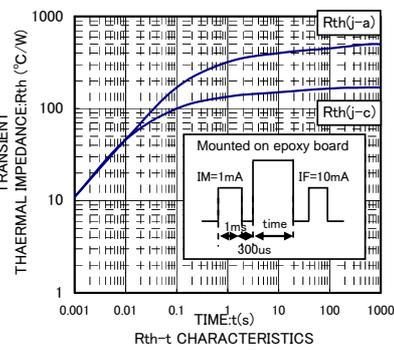
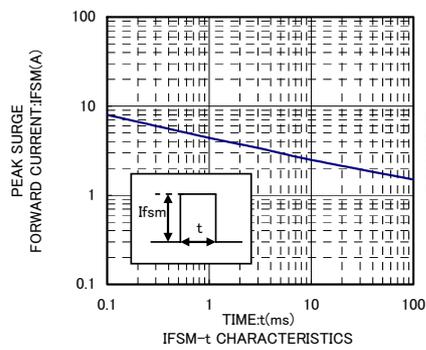
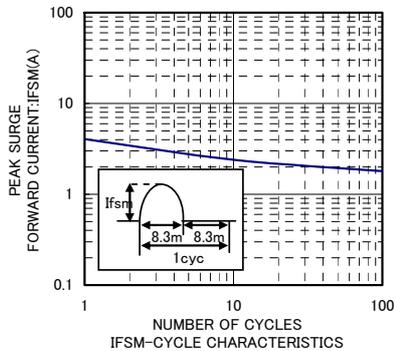
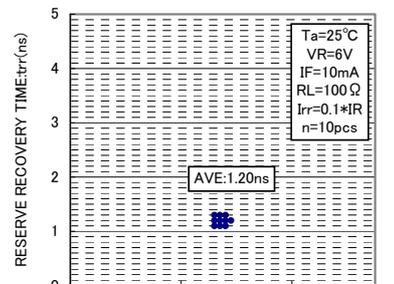
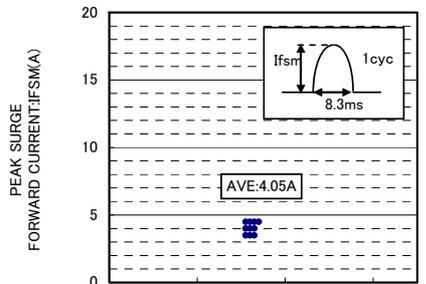
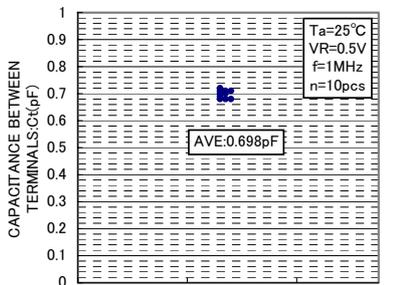
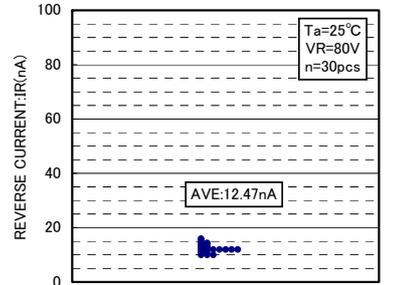
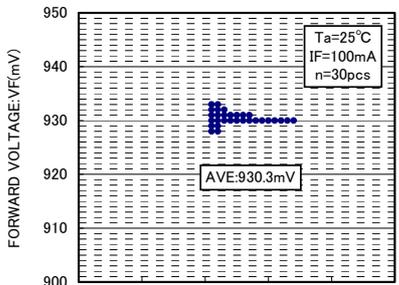
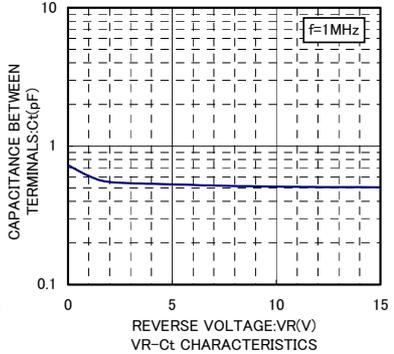
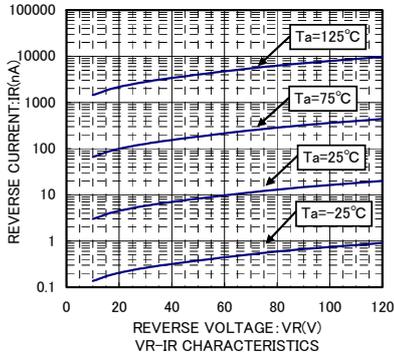
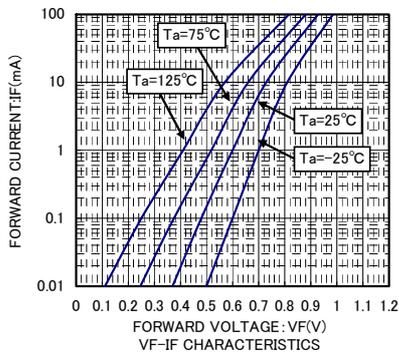
| Parameter | Symbol | Limits | Unit |
|-----------------------------------|-------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 90 | V |
| Reverse voltage (DC) | V_R | 80 | V |
| Forward voltage (repetitive peak) | I_{FM} | 225 | mA |
| Average rectified forward current | I_o | 100 | mA |
| Surge current (t=1s) | I_{surge} | 500 | mA |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -55 to +125 | °C |

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|------------------------------|----------|------|------|------|---------------|---|
| Forward voltage | V_F | - | - | 1.2 | V | $I_F=100\text{mA}$ |
| Reverse current | I_R | - | - | 0.1 | μA | $V_R=80\text{V}$ |
| Capacitance between terminal | C_t | - | - | 3 | pF | $V_R=0.5\text{V}$, $f=1\text{MHz}$ |
| Reverse recovery time | t_{rr} | - | - | 4 | ns | $V_R=6\text{V}$, $I_F=10\text{mA}$, $R_L=100\Omega$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



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