

Switching Diode

1SS400G

●Applications

High speed switching

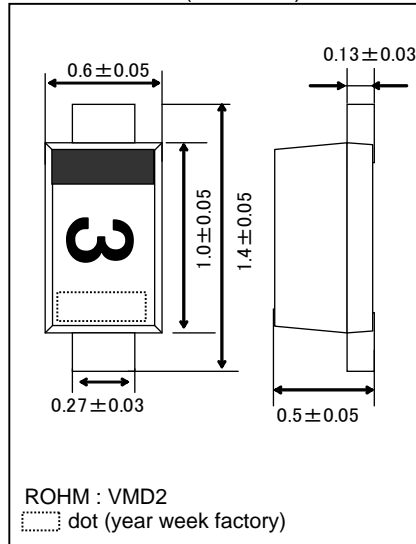
●Features

- 1) Ultra small mold type. (VMD2)
- 2) High reliability

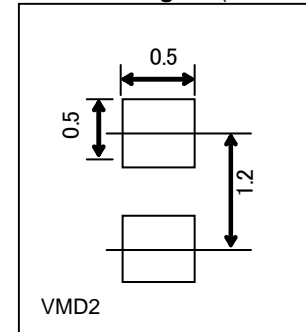
●Construction

Silicon epitaxial planer

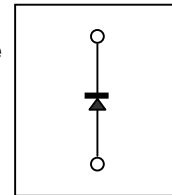
●Dimensions (Unit : mm)



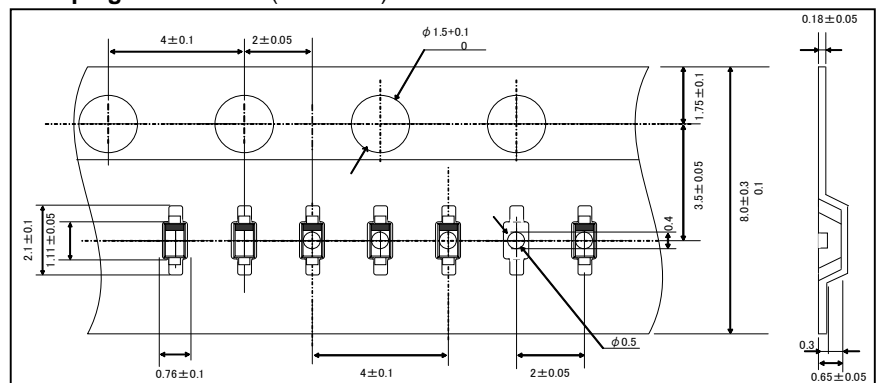
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

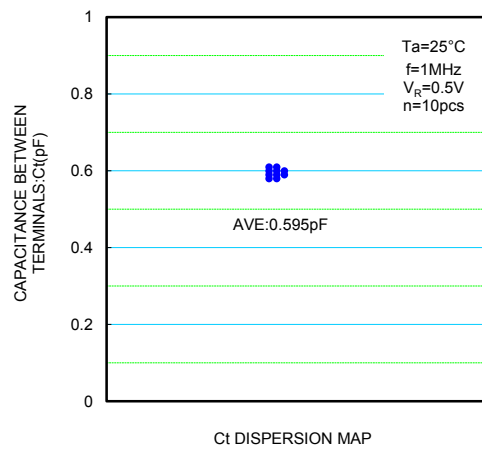
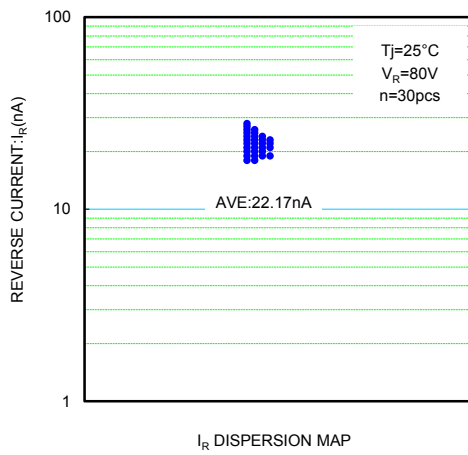
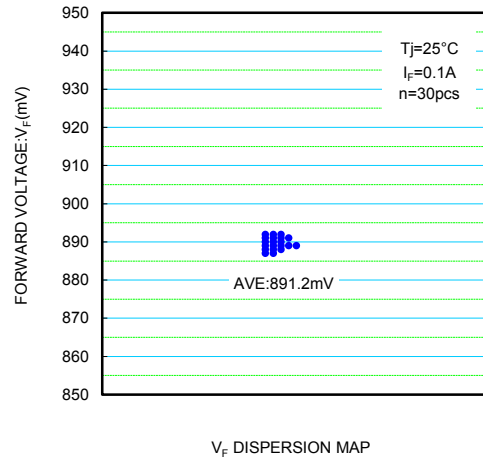
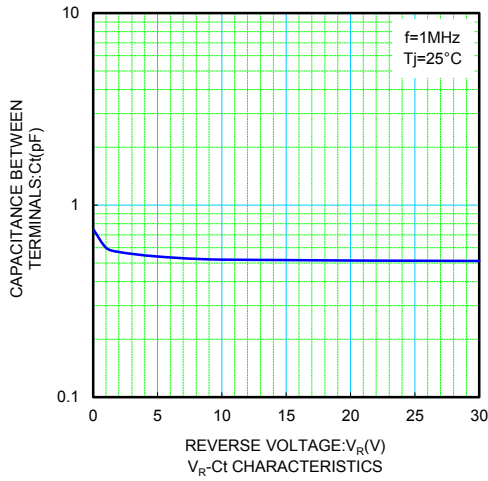
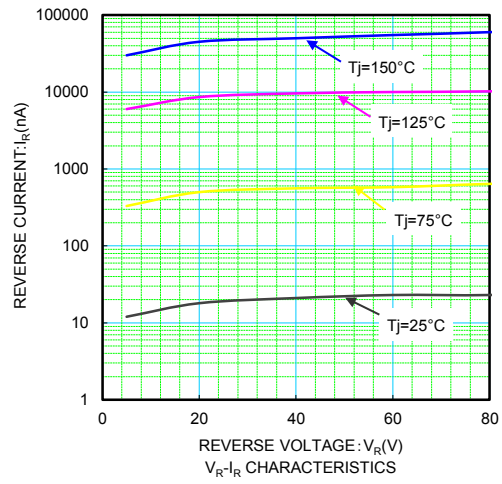
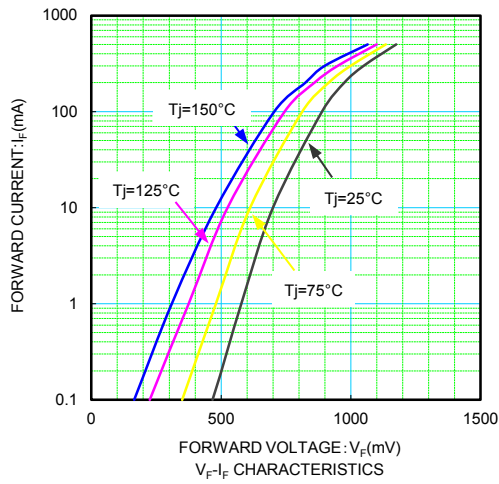


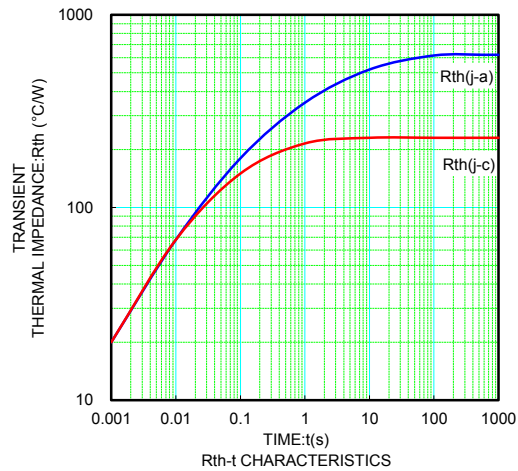
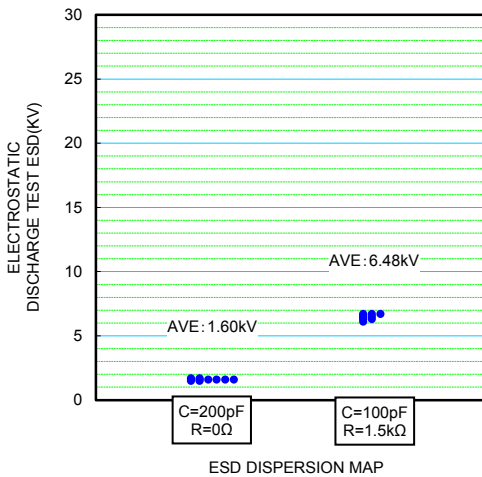
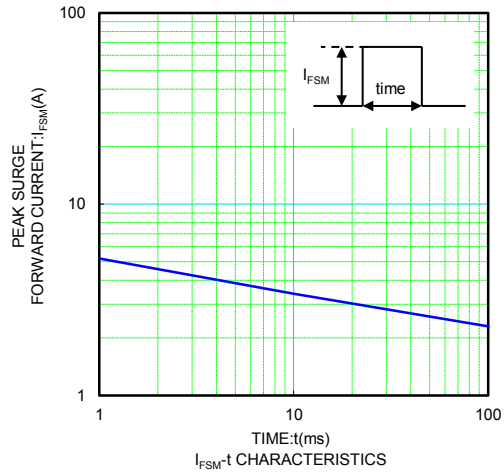
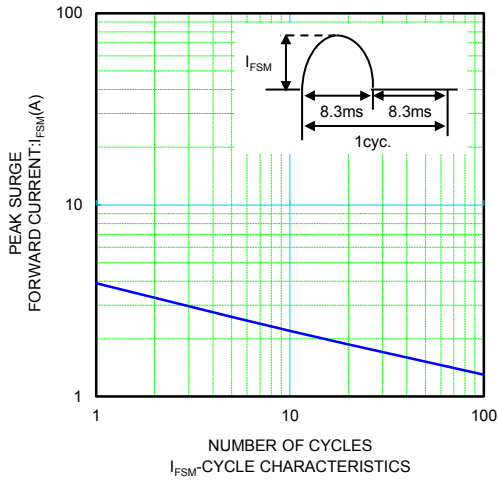
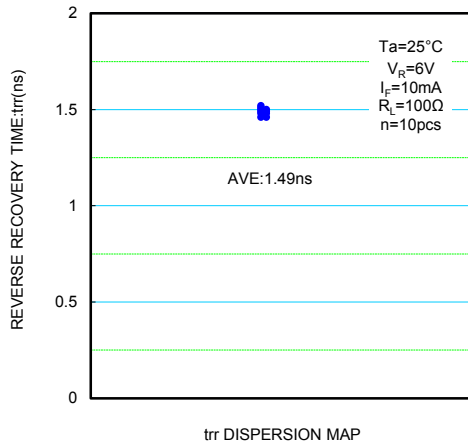
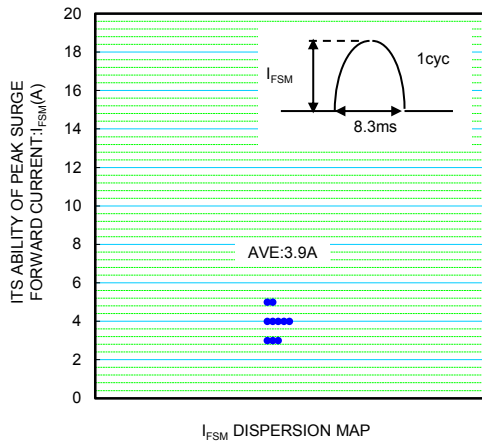
●Absolute maximum ratings (Ta=25°C)

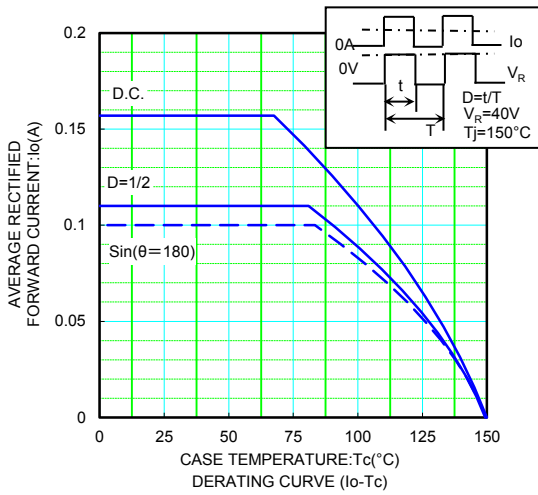
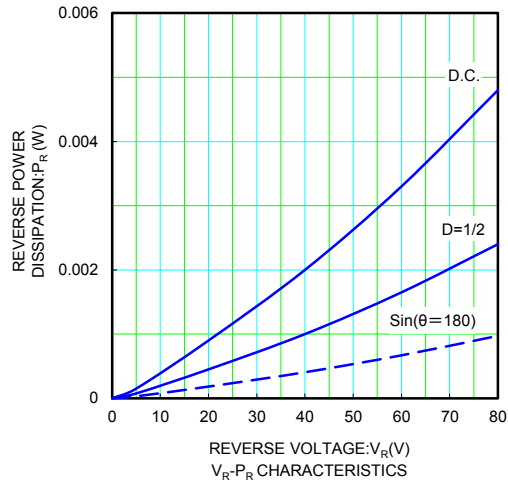
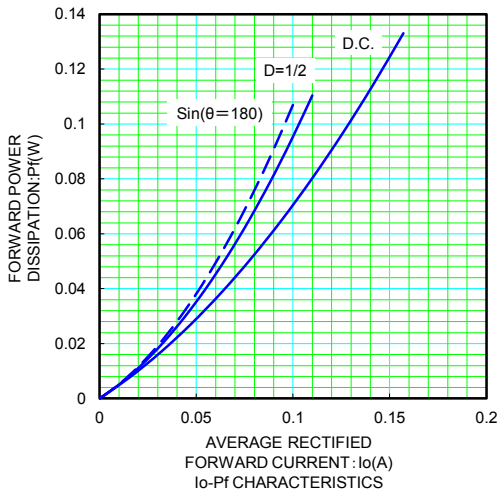
| Parameter | Symbol | Limits | Unit |
|-----------------------------------|-------------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 90 | V |
| Reverse voltage (DC) | V_R | 80 | V |
| Forward current (repetitive peak) | I_{FM} | 225 | mA |
| Average rectified forward current | I_o | 100 | mA |
| Surge current (1S) | I_{surge} | 500 | mA |
| 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 |
|------------------------------|----------|------|------|------|------|---------------------------------|
| Forward voltage | V_F | - | - | 1.2 | V | $I_F=100mA$ |
| Reverse current | I_R | - | - | 100 | nA | $V_R=80V$ |
| Capacitance between terminal | C_t | - | - | 3.0 | pF | $V_R=0.5V f=1.0MHz$ |
| Reverse recovery time | T_{rr} | - | - | 4.0 | ns | $V_R=6V I_F=10mA R_L=100\Omega$ |







Notes

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