

Schottky barrier diode

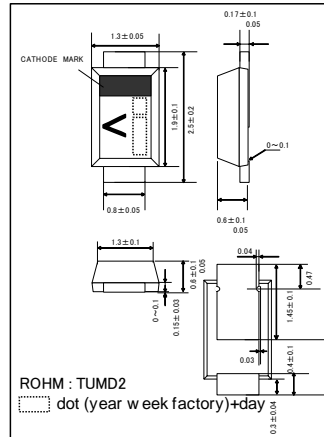
RB400VA-50

● **Applications**
General rectification

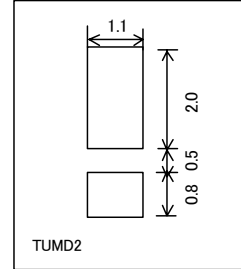
● **Features**
1) Small mold type. (TUMD2)
2) Low I_F , Low I_R .
3) High reliability.

● **Construction**
Silicon epitaxial planar

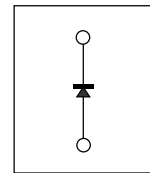
● **External dimensions (Unit : mm)**



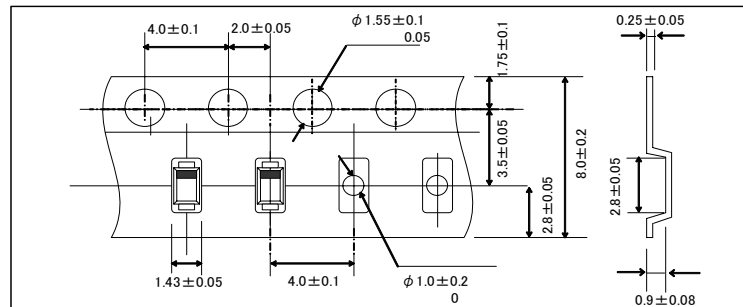
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



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

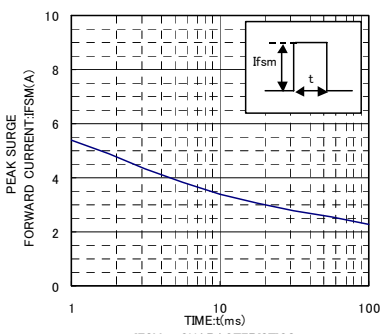
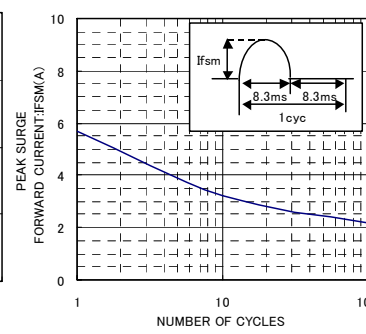
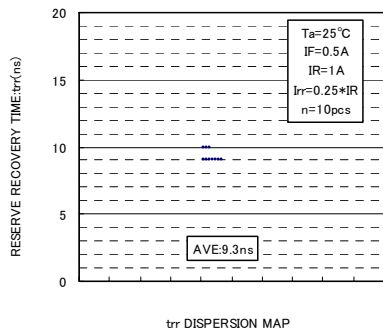
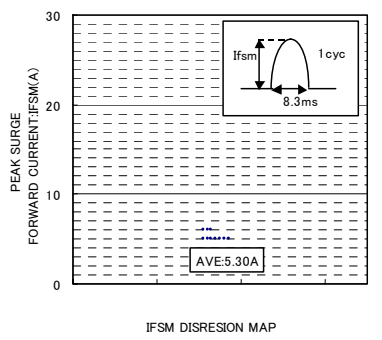
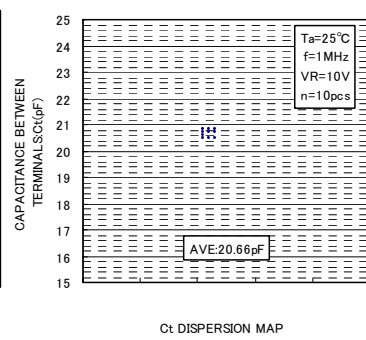
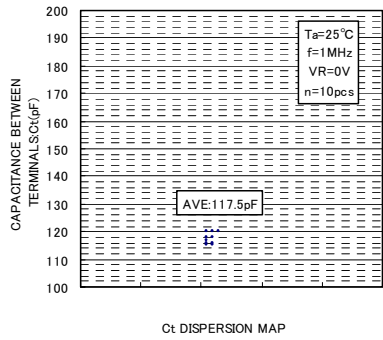
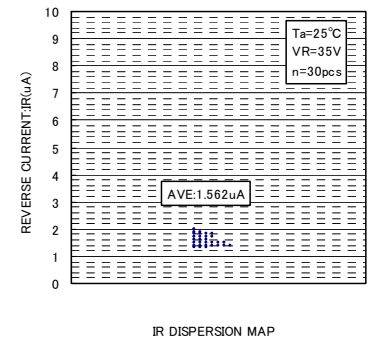
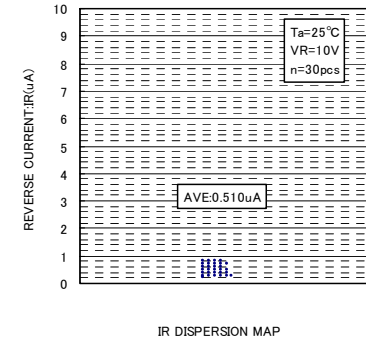
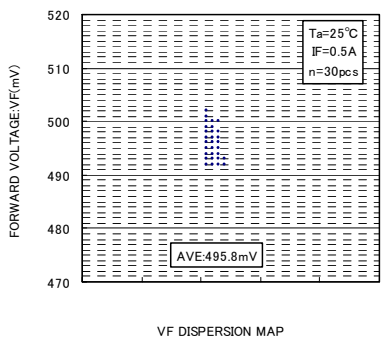
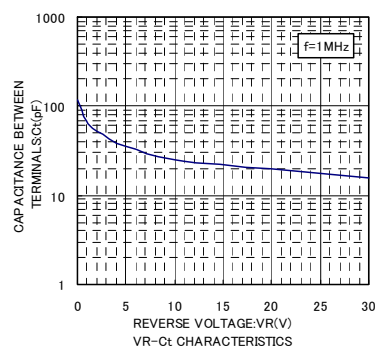
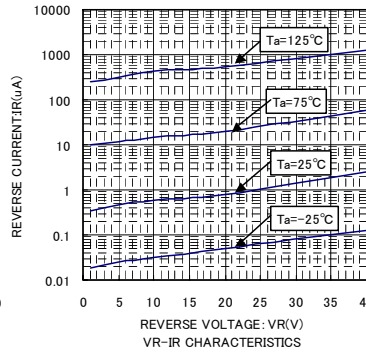
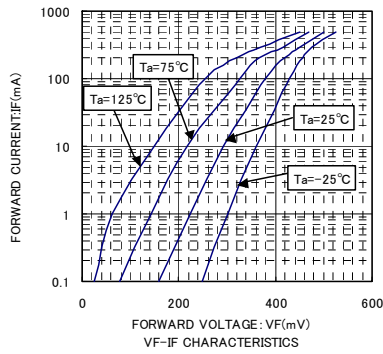
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 50 | V |
| Reverse voltage (DC) | V_R | 40 | V |
| Average rectified forward current | I_o | 0.5 | A |
| Forward current surge peak (60Hz·1cyc) | I_{FSM} | 3 | A |
| Junction temperature | T_J | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

● **Electrical characteristics (Ta=25°C)**

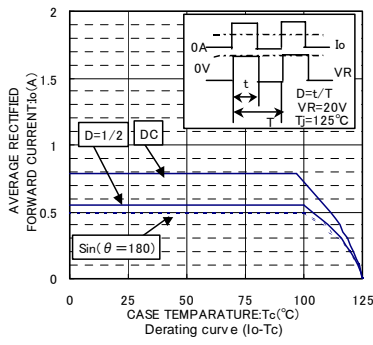
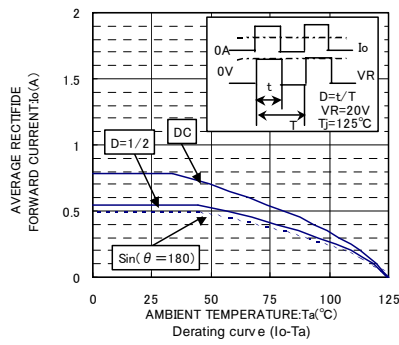
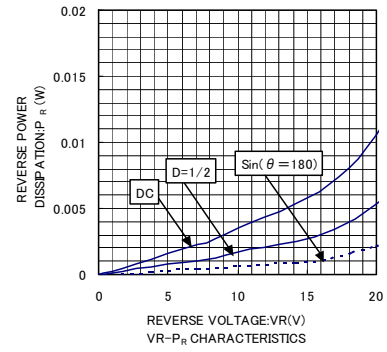
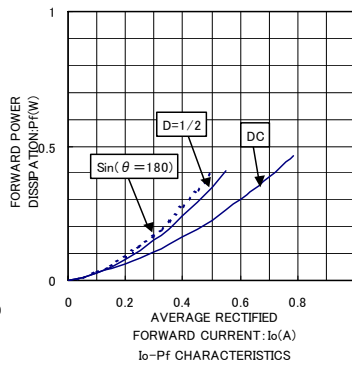
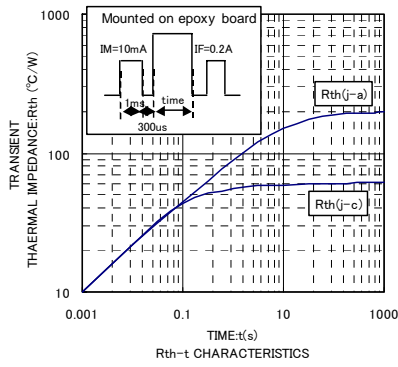
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|------------------------------|----------|------|------|------|---------|-------------------|
| Forward voltage | V_F1 | - | - | 0.55 | V | $I_F=500mA$ |
| Reverse current | I_{R1} | - | - | 30 | μA | $V_R=10V$ |
| | I_{R2} | - | - | 50 | μA | $V_R=30V$ |
| Capacitance between terminal | C_{t1} | - | 125 | - | pF | $V_R=0V, f=1MHz$ |
| | C_{t2} | - | 20 | - | pF | $V_R=10V, f=1MHz$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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