

Schottky barrier diode

RB496EA

●Applications

Low current rectification

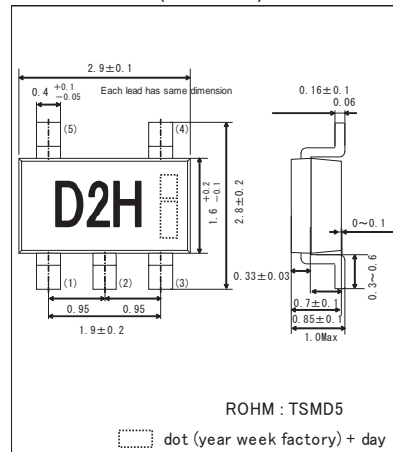
●Features

- 1) Small mold type (TSMD5)
- 2) Low Ir
- 3) High reliability

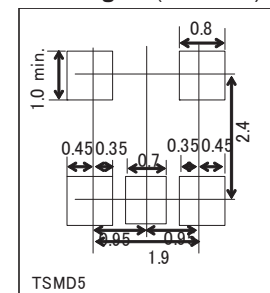
●Structure

Silicon epitaxial planer

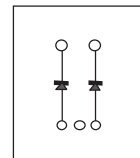
●Dimensions (Unit : mm)



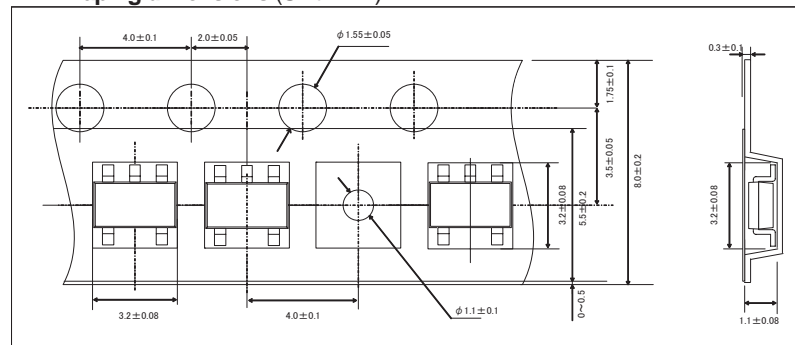
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage | V_R | 20 | V |
| Average rectified forward current (*1) | I_O | 1 | A |
| Forward current surge peak (60Hz · 1cyc) (*1) | I_{FSM} | 10 | A |
| Junction temperature | T_J | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

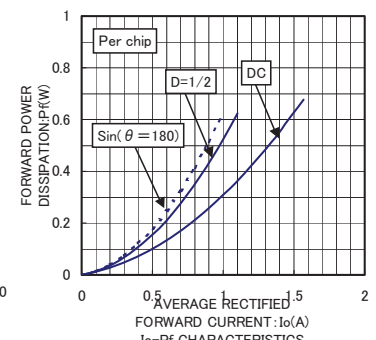
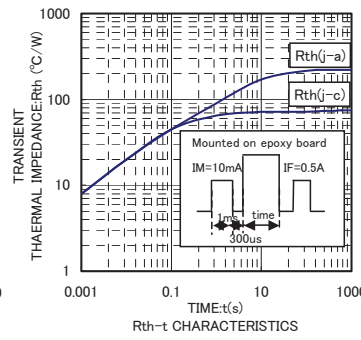
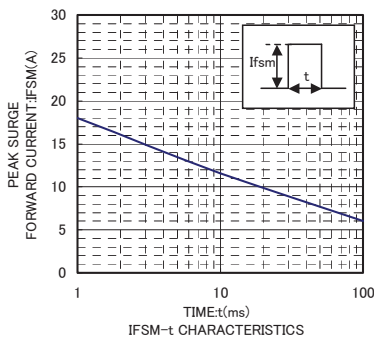
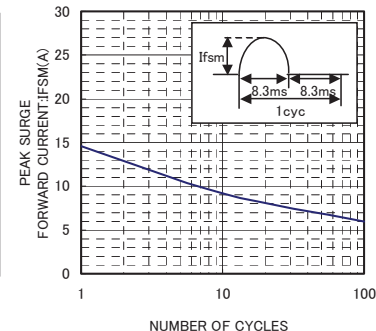
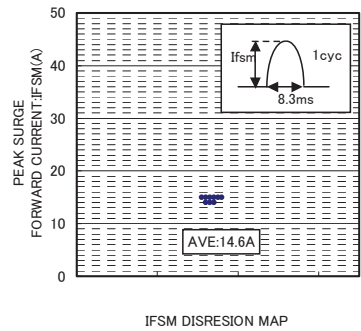
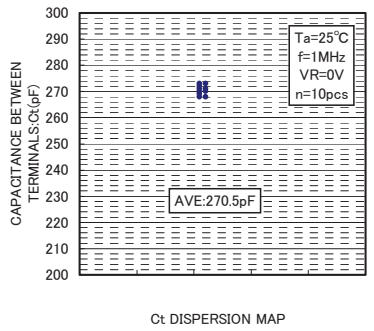
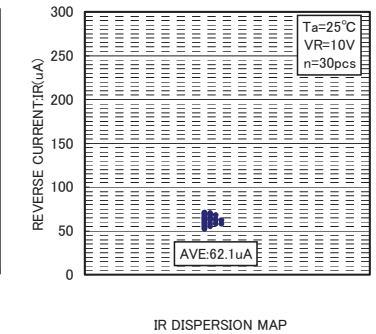
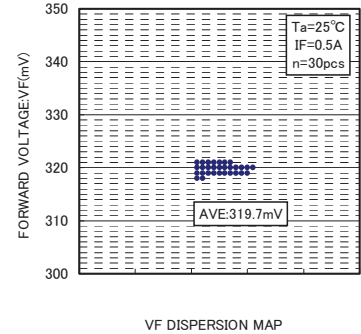
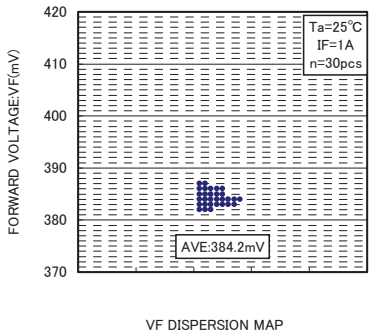
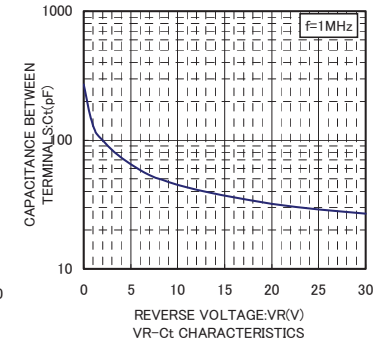
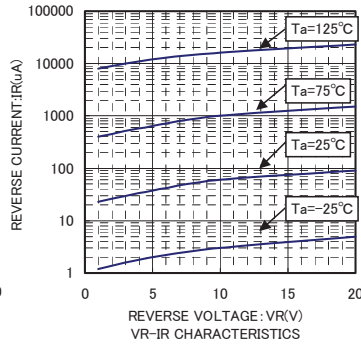
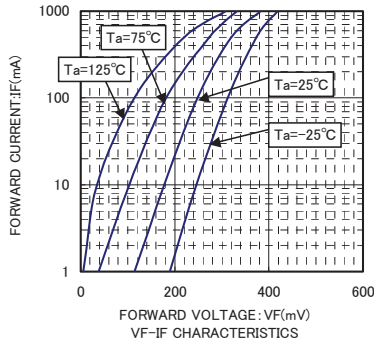
(*1) Rating of per diode

●Electrical characteristic (Ta=25°C)

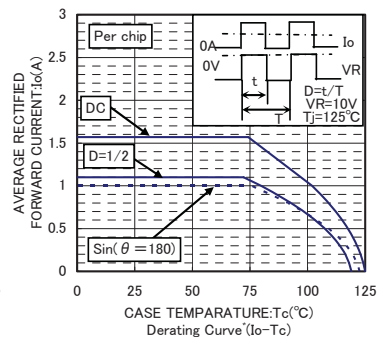
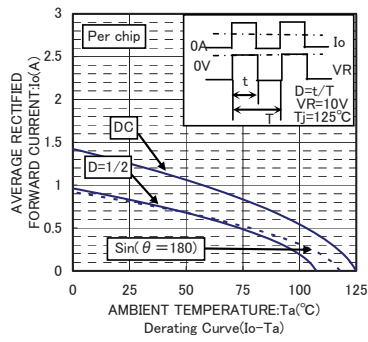
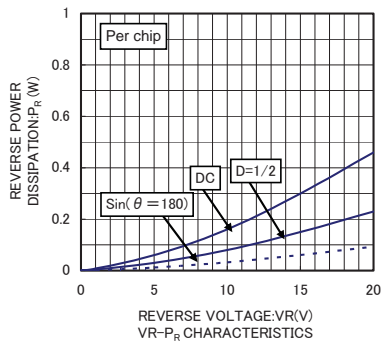
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|----------|------|------|------|------|------------|
| Forward voltage | V_{F1} | - | - | 0.35 | V | $I_F=0.5A$ |
| | V_{F2} | - | - | 0.40 | V | $I_F=1A$ |
| Reverse current | I_R | - | - | 500 | μA | $V_R=10V$ |

Diodes

●Electrical characteristic curves



Diodes



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