

Schottky barrier diode

RB160M-60

● Applications

General rectification

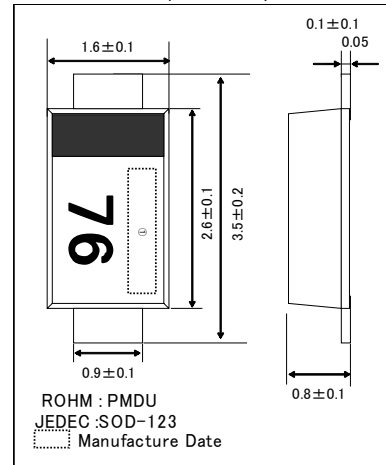
● Features

- 1) Small power mold type. (PMDU)
- 2) Low I_R .
- 3) High reliability.

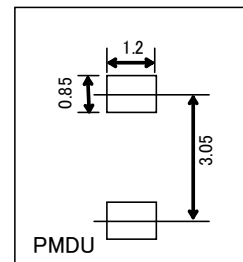
● Construction

Silicon epitaxial planar

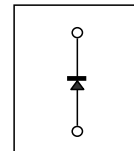
● Dimensions (Unit : mm)



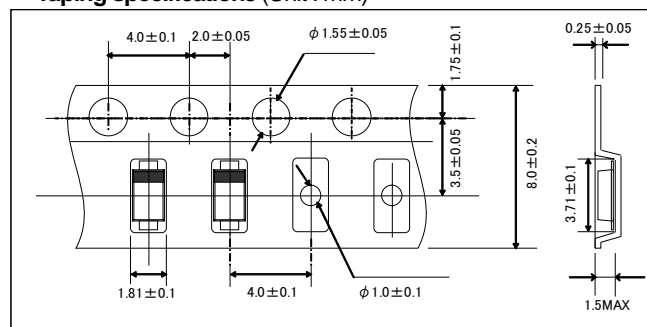
● Land size figure (Unit : mm)



● Structure



● Taping specifications (Unit : mm)

● Absolute maximum ratings ($T_a=25^\circ\text{C}$)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------------------|
| Reverse voltage (repetitive peak) | V_{RM} | 60 | V |
| Reverse voltage (DC) | V_R | 60 | V |
| Average rectified forward current | I_o | 1 | A |
| Forward current surge peak (60Hz · 1cyc) | I_{FSM} | 30 | A |
| Junction temperature | T_j | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | -40 to +150 | $^\circ\text{C}$ |

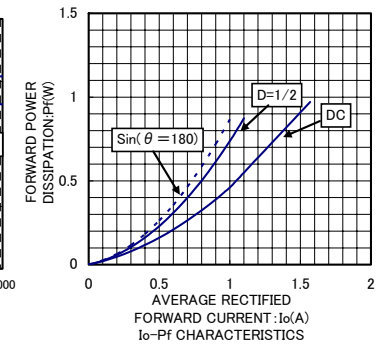
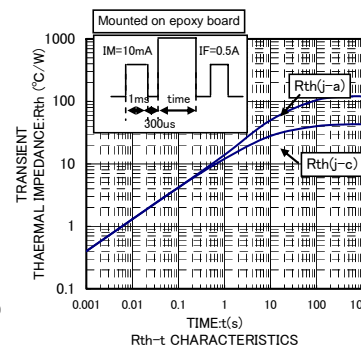
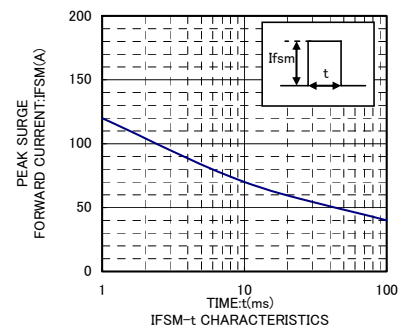
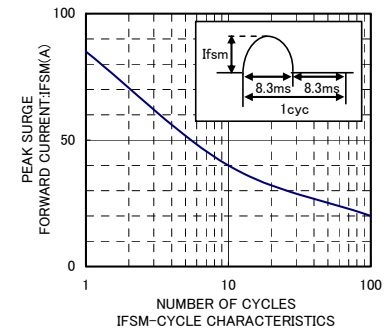
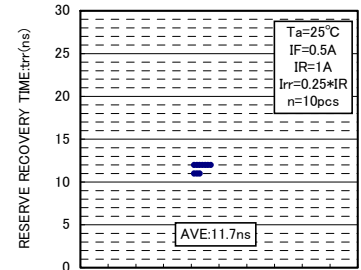
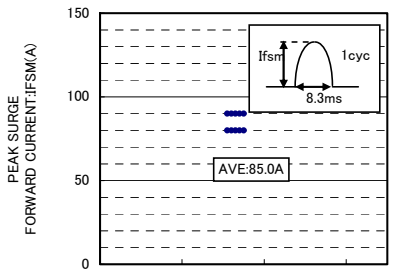
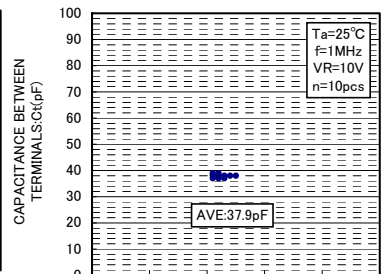
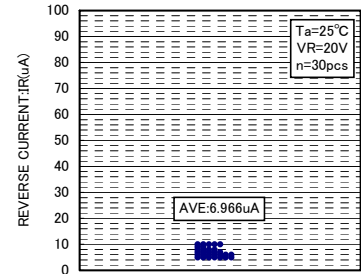
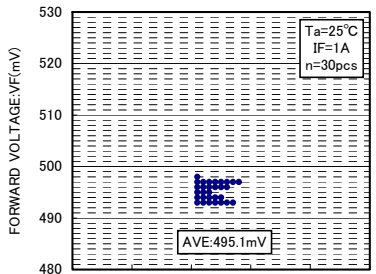
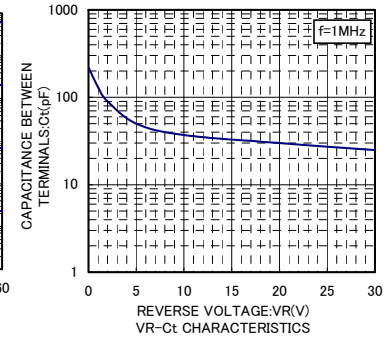
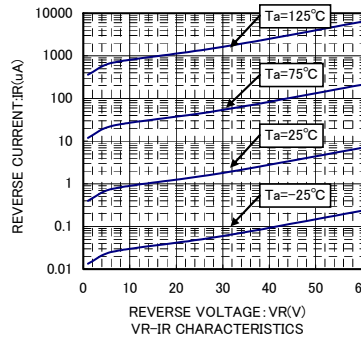
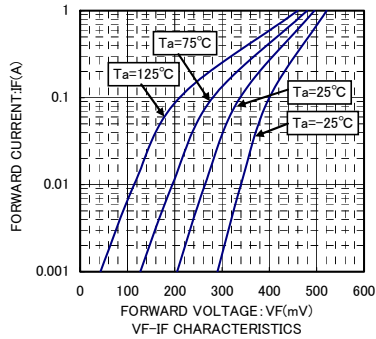
(*1) Mounted on epoxy board. 180° Half sine wave

● Electrical characteristics ($T_a=25^\circ\text{C}$)

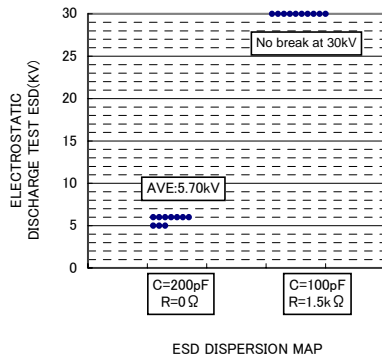
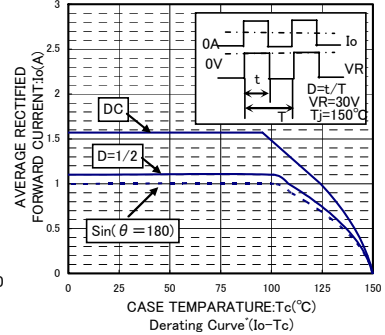
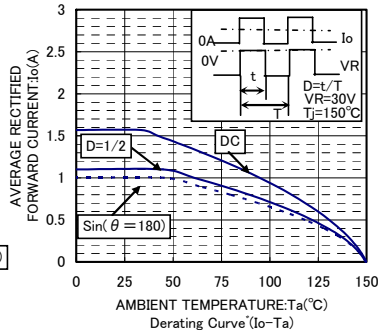
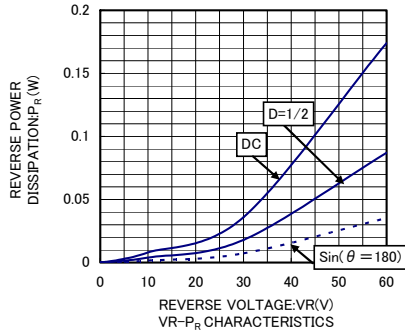
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------------|--------|------|------|------|---------------|------------------------------------|
| Forward voltage | V_F | - | 0.49 | 0.55 | V | $I_F=1.0\text{A}$ |
| Reverse current | I_R | - | 7.0 | 50 | μA | $V_R=60\text{V}$ |
| Capacitance terminals | C_t | - | 40 | - | pF | $V_R=10\text{V}$, $f=1\text{MHz}$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



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