

Schottky barrier diode

RB060M-30

●Applications

General rectification

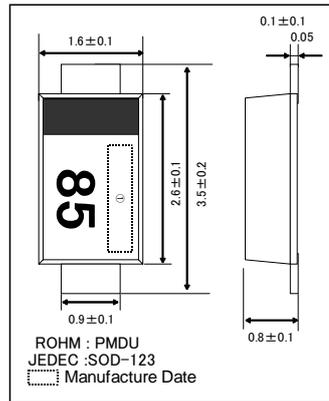
●Features

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

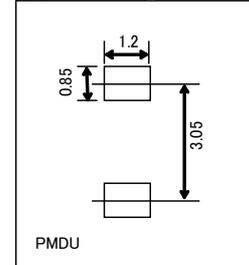
●Construction

Silicon epitaxial planar

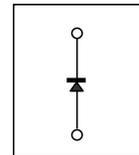
●External dimensions (Unit : mm)



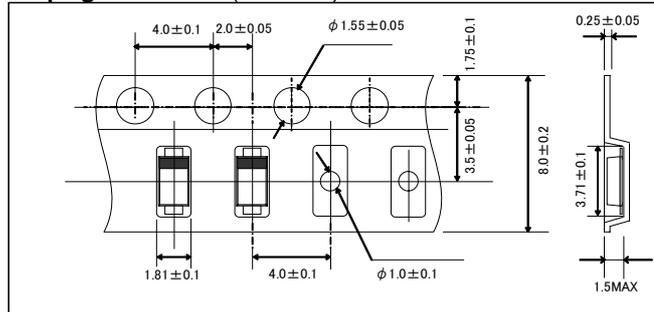
●Land size figure



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 30 | V |
| Reverse voltage (DC) | V_R | 30 | V |
| Average rectified forward current | I_o | 2 | A |
| Forward current surge peak (60Hz·1cyc) | I_{FSM} | 55 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

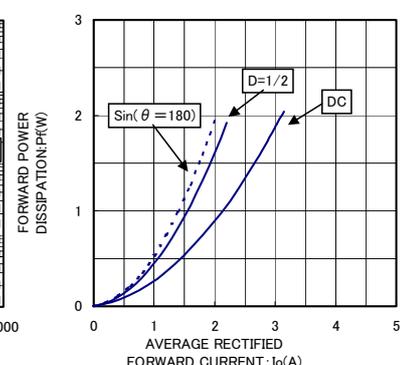
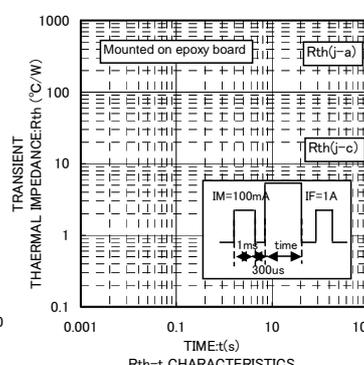
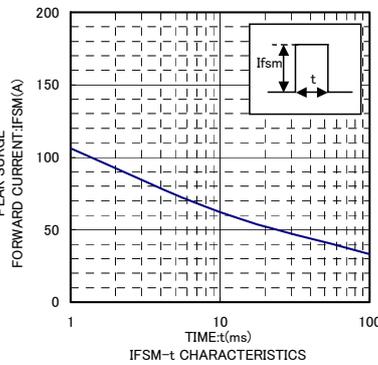
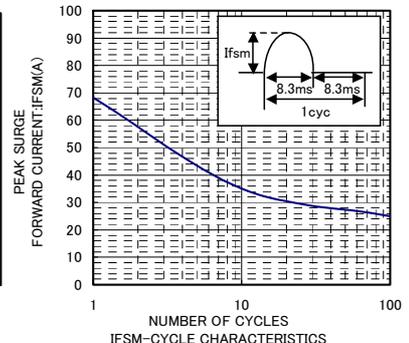
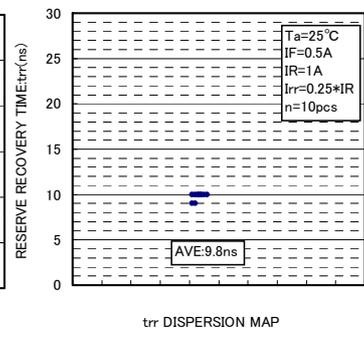
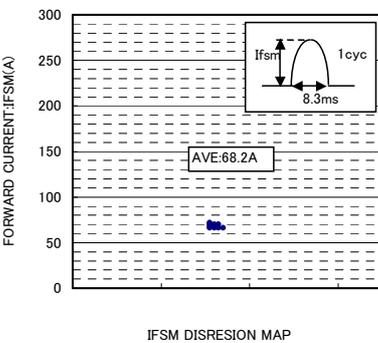
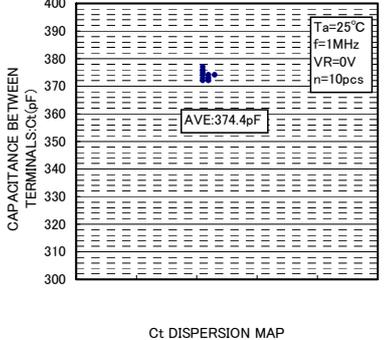
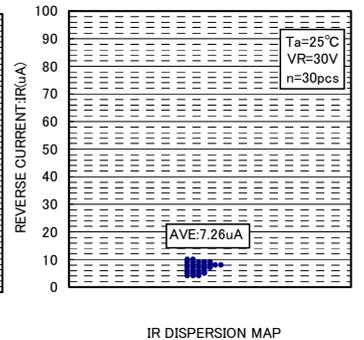
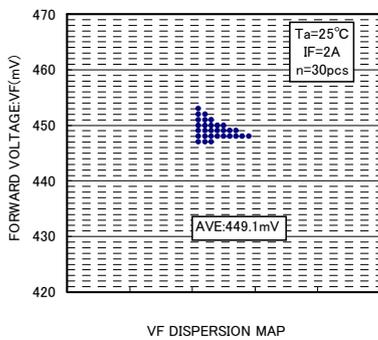
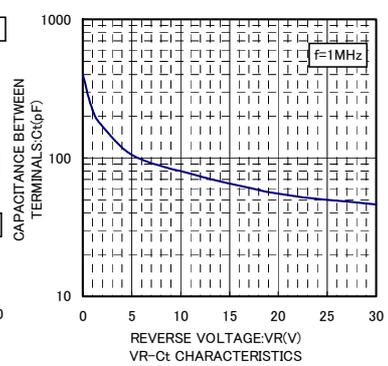
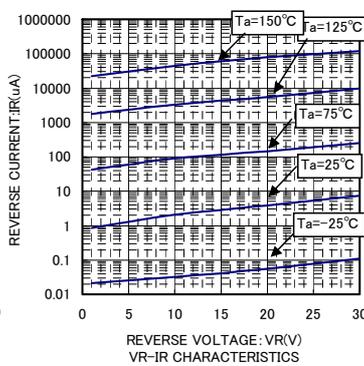
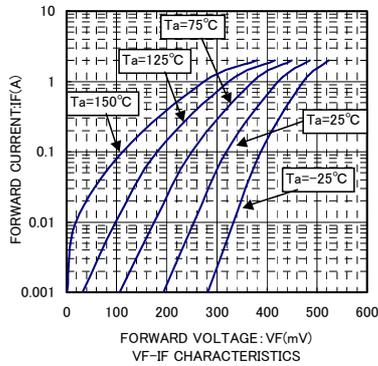
(*1) $T_c=65^\circ\text{C}$ MAX. Mounted on epoxy board. 180° Half sine wave

●Electrical characteristic (Ta=25°C)

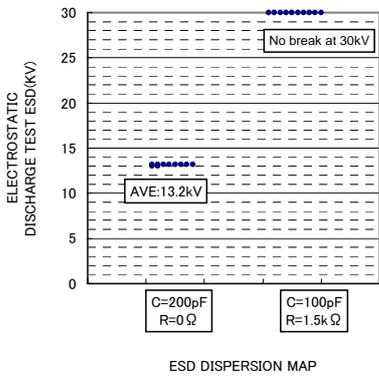
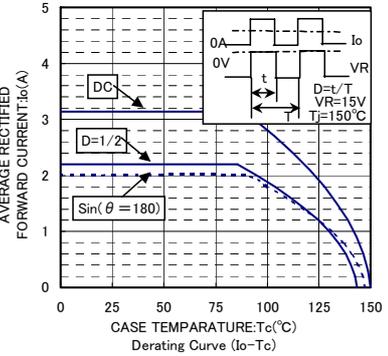
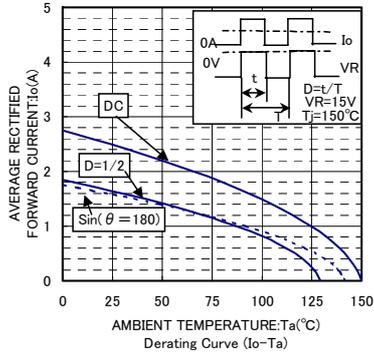
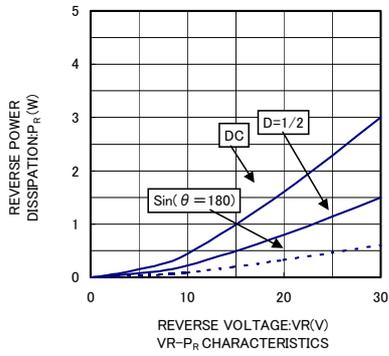
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|------------------------|----------|------|------|------|---------|---|
| Forward voltage | V_{F1} | 0.32 | 0.4 | 0.45 | V | $I_F=1.0A$ |
| | V_{F2} | 0.36 | 0.44 | 0.49 | V | $I_F=2.0A$ |
| Reverse current | I_R | - | 10 | 50 | μA | $V_R=30V$ |
| ESD break down voltage | ESD | 7 | - | - | kV | $C=200pF, R=0\Omega$ forward and reverse : 1 time |

Diodes

●Electrical characteristic curves



Diodes



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