

# Schottky barrier diode

## RB060L-40

### •Applications

Rectifying small power

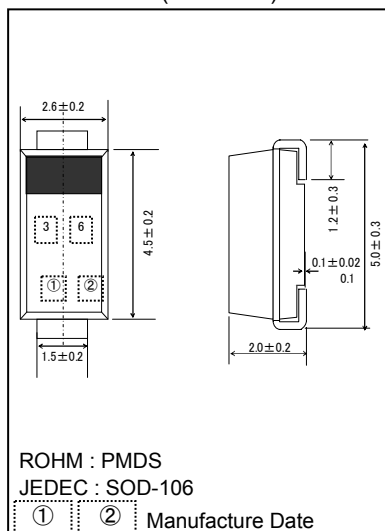
### •Features

- 1) Small power mold type. (PMDS)
- 2) Low IR
- 3) High reliability

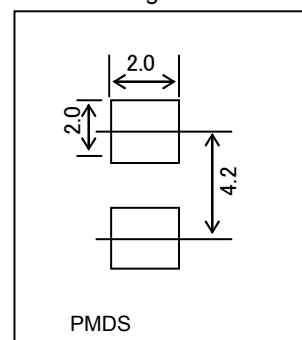
### •Construction

Silicon epitaxial planar

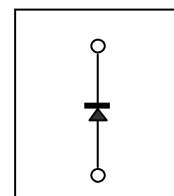
### •Dimensions (Unit : mm)



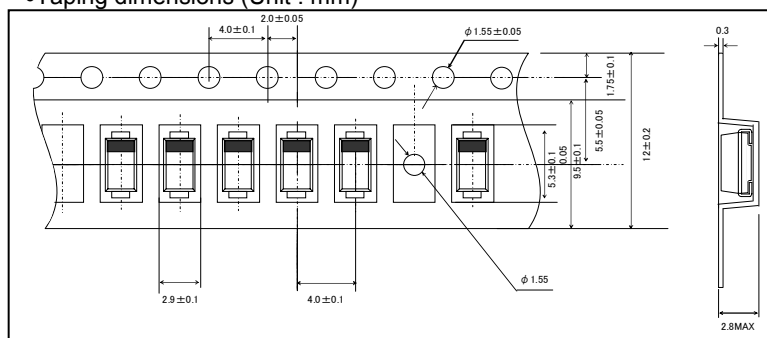
### •Land size figure



### •Structure



### •Taping dimensions (Unit : mm)



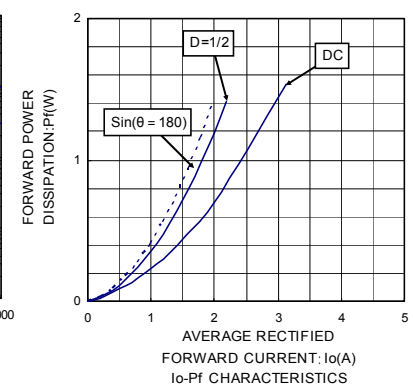
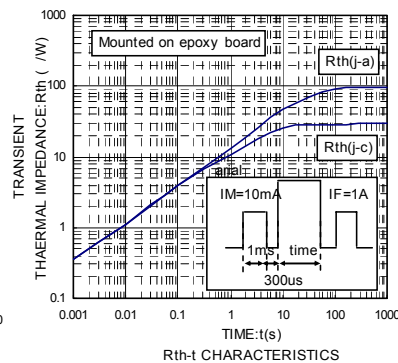
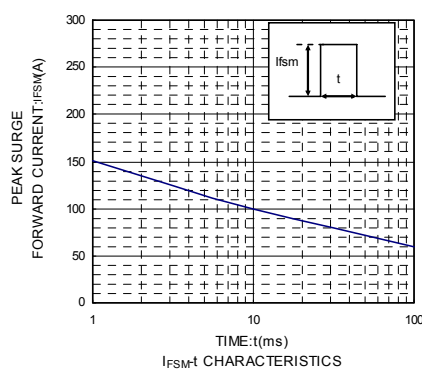
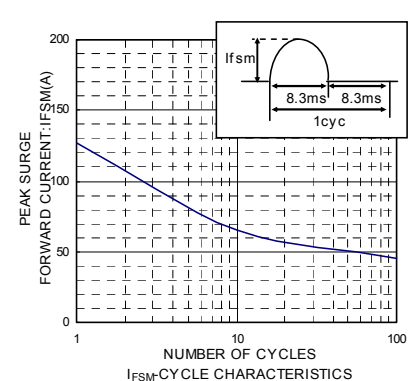
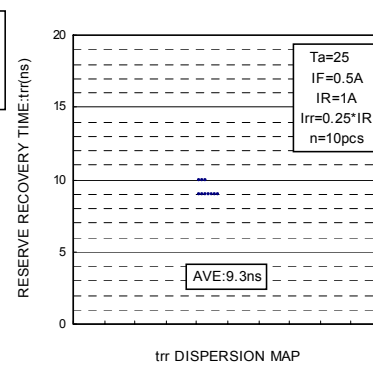
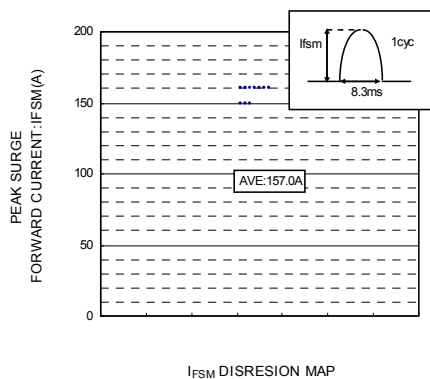
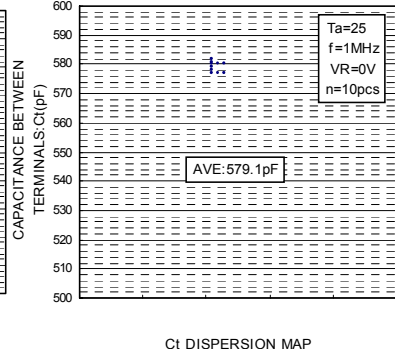
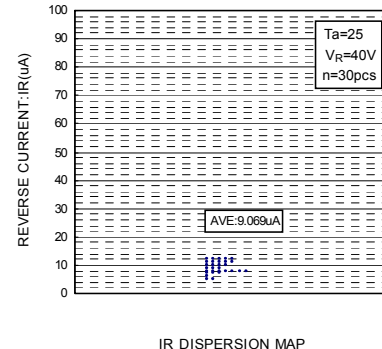
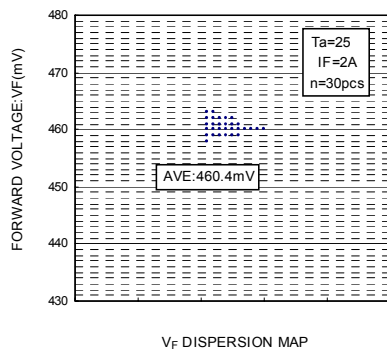
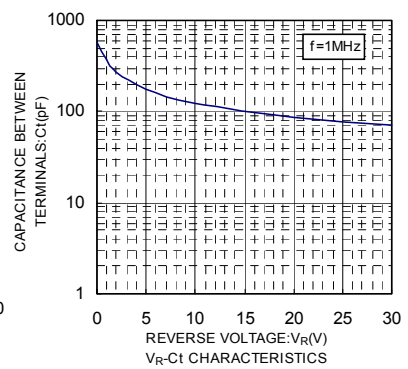
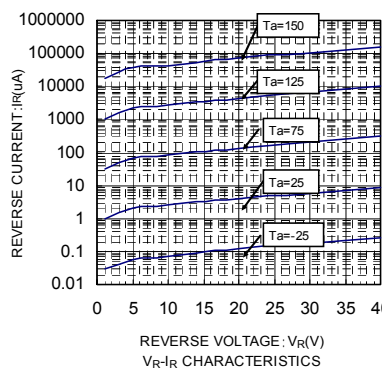
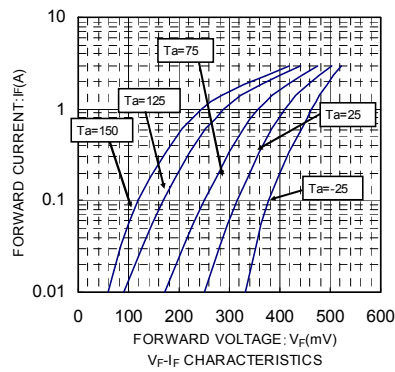
### •Absolute maximum ratings (Ta=25°C)

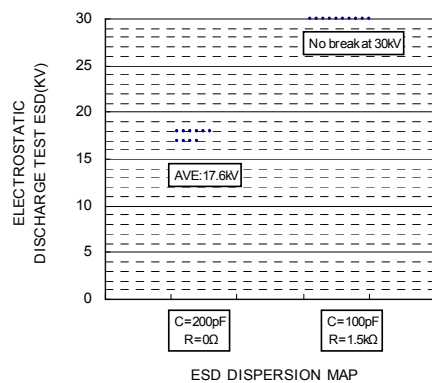
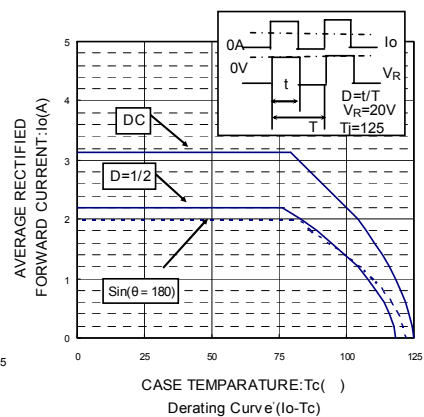
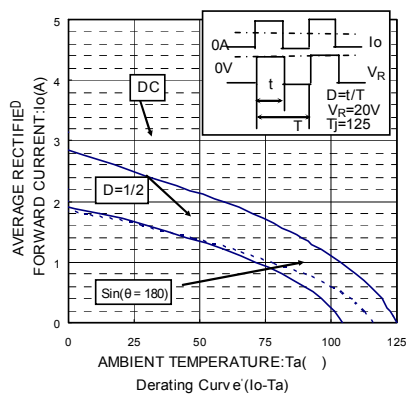
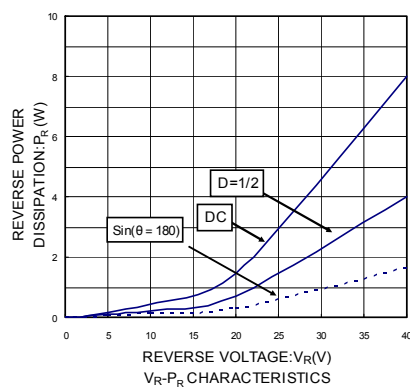
| Parameter                              | Symbol    | Limits      | Unit |
|----------------------------------------|-----------|-------------|------|
| Reverse voltage (repetitive peak)      | $V_{RM}$  | 40          | V    |
| Reverse voltage (DC)                   | $V_R$     | 40          | V    |
| Average rectified forward current      | $I_o$     | 2           | A    |
| Forward current surge peak (60Hz·1cyc) | $I_{FSM}$ | 70          | A    |
| Junction temperature                   | $T_j$     | 125         | °C   |
| Storage temperature                    | $T_{stg}$ | -40 to +125 | °C   |

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

### •Electrical characteristic (Ta=25°C)

| Parameter         | Symbol         | Min. | Typ. | Max. | Unit | Conditions                |
|-------------------|----------------|------|------|------|------|---------------------------|
| Forward voltage   | $V_{F1}$       | -    | -    | 0.50 | V    | $I_F=2.0A$                |
|                   | $V_{F2}$       | -    | -    | 0.45 | V    | $I_F=1.0A$                |
| Reverse current   | $I_R$          | -    | -    | 1    | mA   | $V_R=40V$                 |
| Thermal impedance | $\theta_{j-a}$ | -    | -    | 90   | °C/W | Mounting on alumina board |
|                   | $\theta_{j-a}$ | -    | -    | 120  | °C/W | Mounted on epoxy board    |





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