

Schottky barrier diode

RB085B-30

●Applications

General rectification

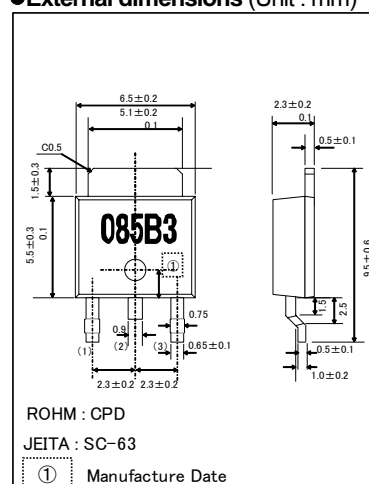
●Features

- 1) Power mold type. (CPD)
- 2) Low V_F
- 3) High reliability

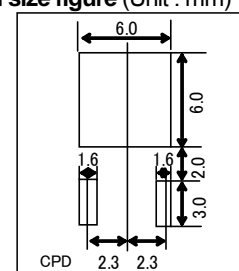
●Construction

Silicon epitaxial planar

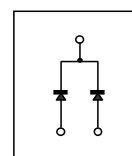
●External dimensions (Unit : mm)



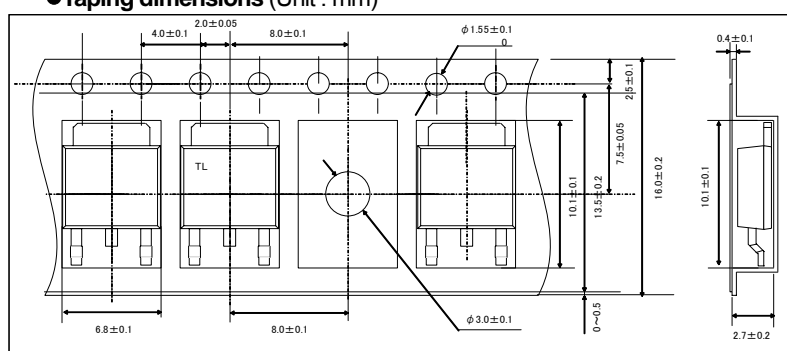
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 35 | V |
| Reverse voltage (DC) | V_R | 30 | V |
| Average rectified forward current (*1) | I_O | 10 | A |
| Forward current surge peak (60Hz·1cyc) (*1) | I_{FSM} | 35 | A |
| Junction temperature | T_J | 150 | °C |
| Storage temperature | T_{stg} | -40 to +150 | °C |

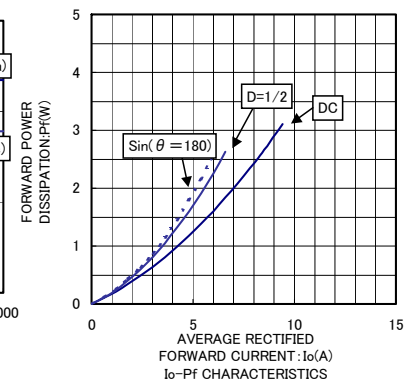
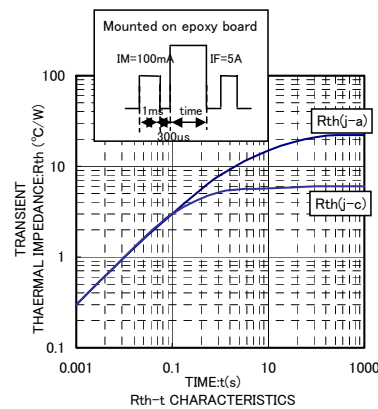
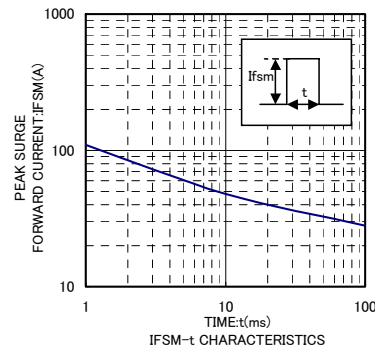
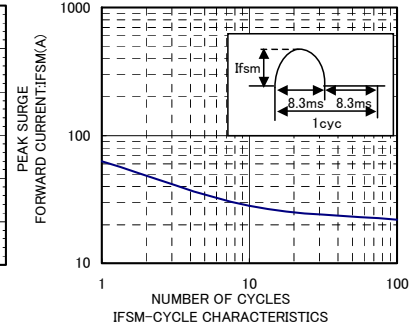
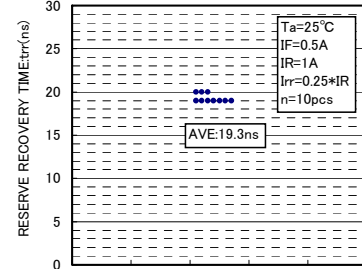
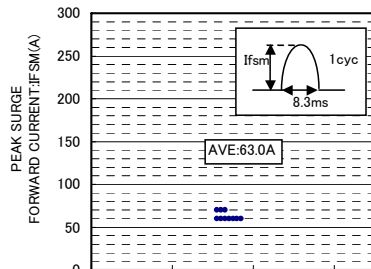
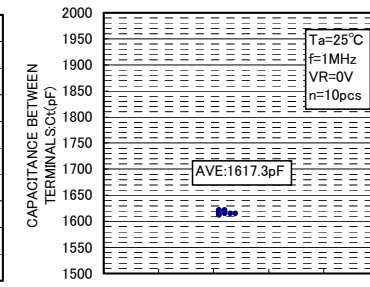
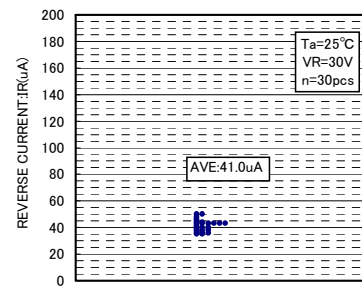
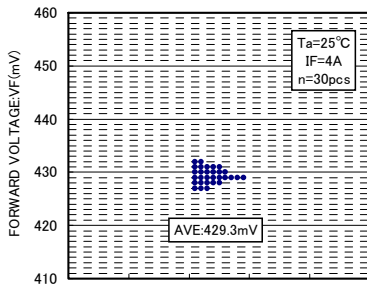
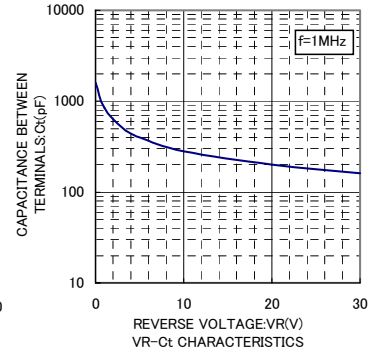
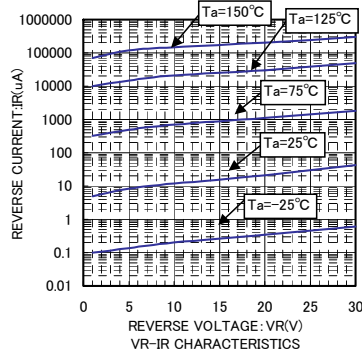
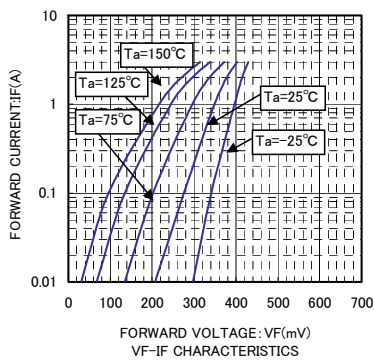
(*1)Rating of per diode : $I_O/2$

●Electrical characteristic (Ta=25°C)

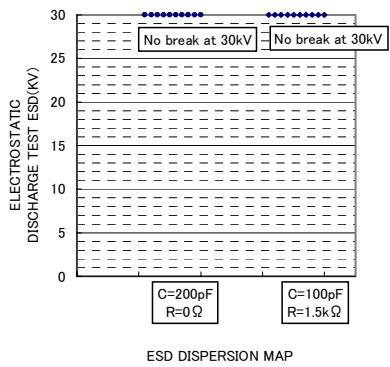
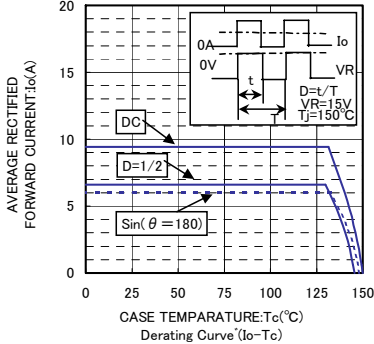
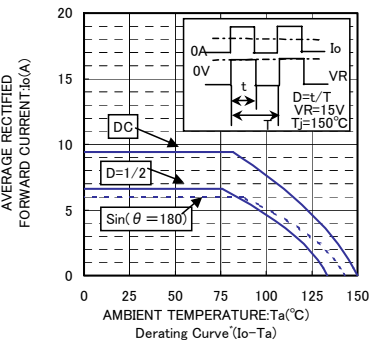
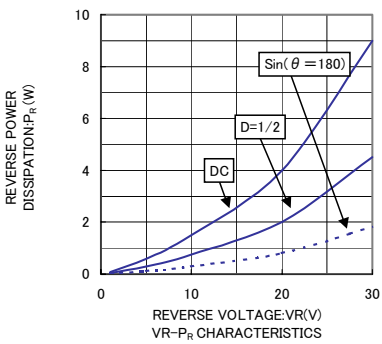
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------|---------------|------|------|------|------|------------------|
| Forward voltage | V_F | - | - | 0.48 | V | $I_F=4.0A$ |
| Reverse current | I_R | - | - | 300 | μA | $V_R=30V$ |
| Thermal impedance | θ_{jc} | - | - | 6.0 | °C/W | junction to case |

Diodes

●Electrical characteristic curves



Diodes



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