

Schottky Barrier Diode

RB095B-90

● **Applications**

General rectification

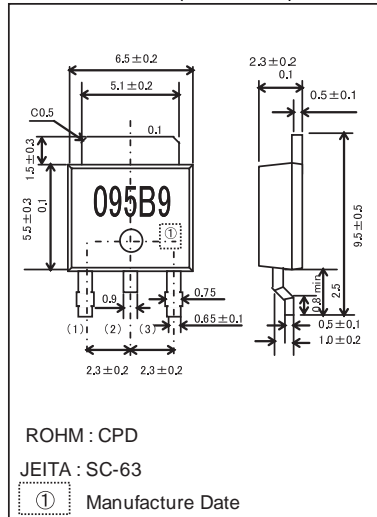
● **Features**

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

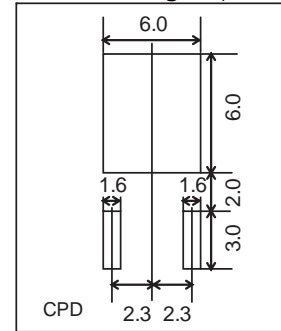
● **Construction**

Silicon epitaxial planar

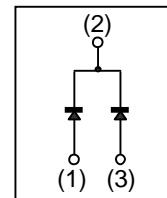
● **Dimensions (Unit : mm)**



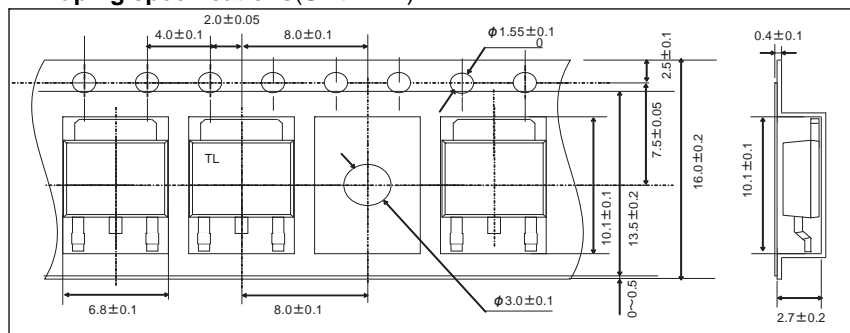
● **Land size figure (Unit : mm)**



● **Structure**



● **Taping specifications (Unit : mm)**



● **Absolute maximum ratings (Ta=25°C)**

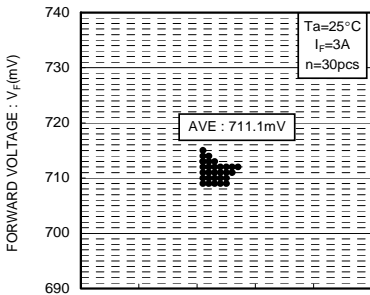
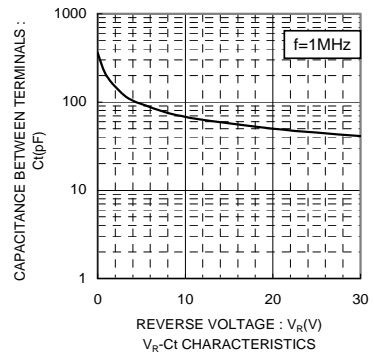
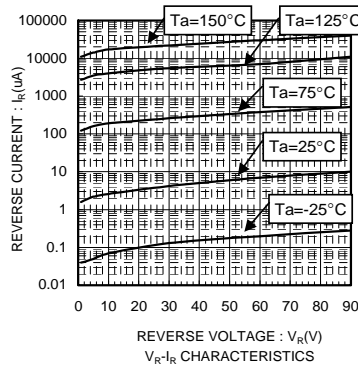
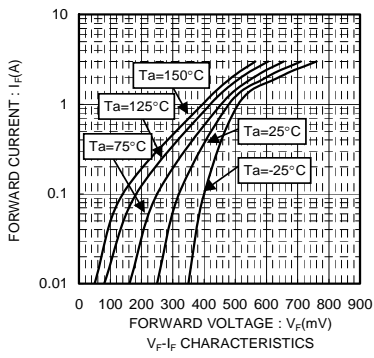
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 90 | V |
| Reverse voltage (DC) | V_R | 90 | V |
| Average rectified forward current (*1) | I_o | 6 | A |
| Forward current surge peak (60Hz / 1cyc)(*1) | I_{FSM} | 45 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -40 to +150 | °C |

(*1) Business frequencies, Rating of R-load, 1/2 I_o per diode, $T_c=122^\circ\text{C}$

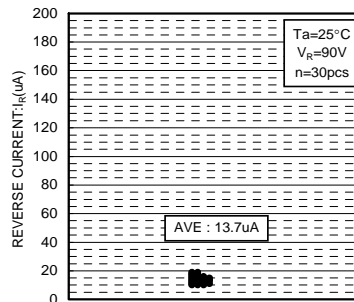
● **Electrical characteristics (Ta=25°C)**

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-------------------|---------------|------|------|------|---------------|-------------------|
| Forward voltage | V_F | - | - | 0.75 | V | $I_F=3.0\text{A}$ |
| Reverse current | I_R | - | - | 150 | μA | $V_R=90\text{V}$ |
| Thermal impedance | θ_{jc} | - | - | 6.0 | °C/W | junction to case |

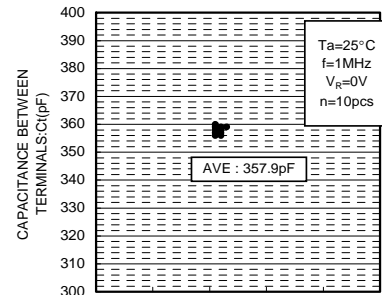
●Electrical characteristics curves



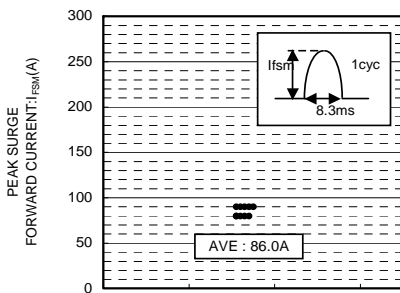
V_F DISPERSION MAP



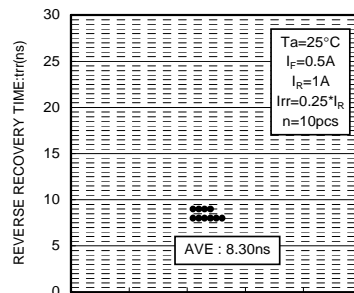
I_R DISPERSION MAP



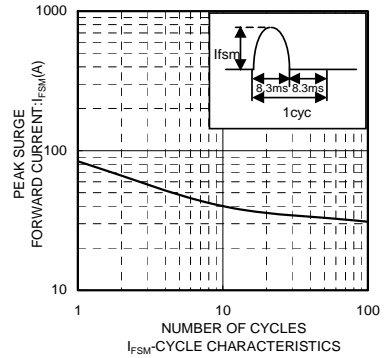
C_t DISPERSION MAP

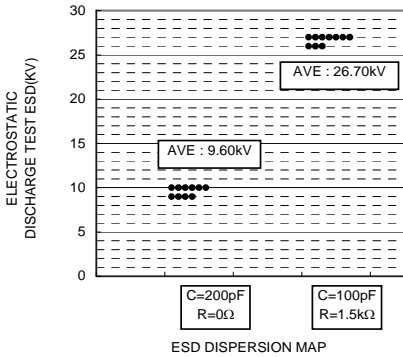
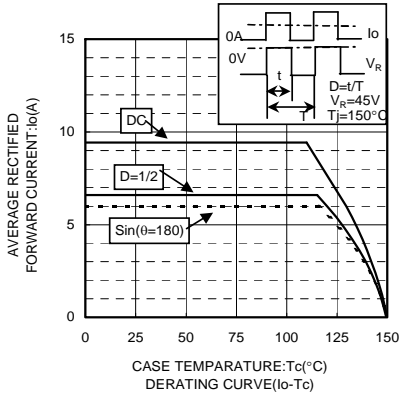
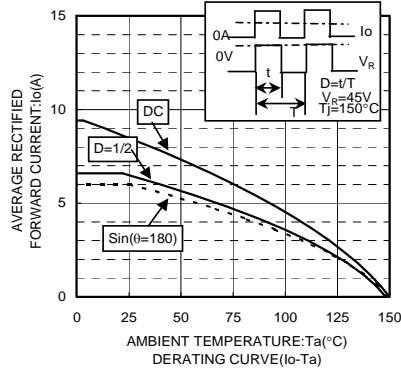
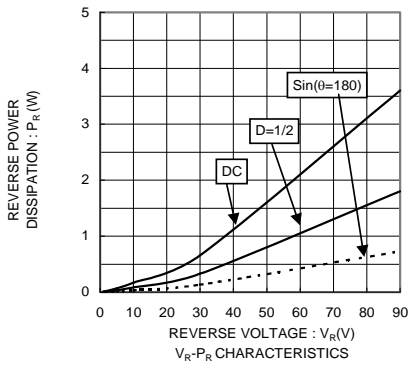
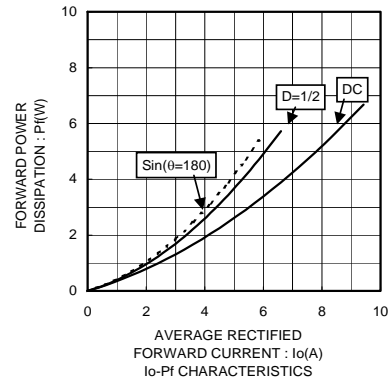
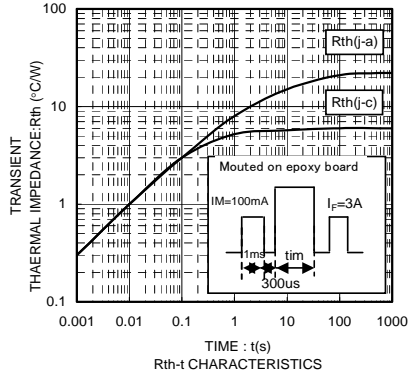
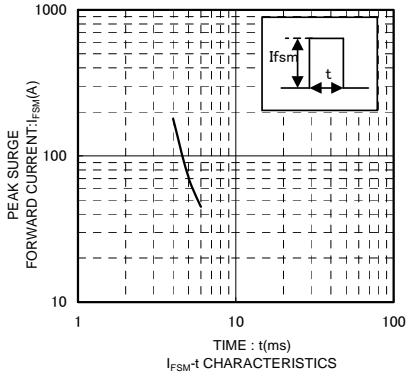


I_{FSM} DISPERSION MAP



t_{rr} DISPERSION MAP





Notes

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