

Schottky barrier diode

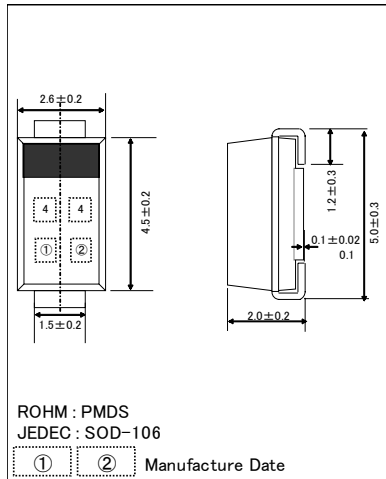
RB160L-90

●Applications
General rectification

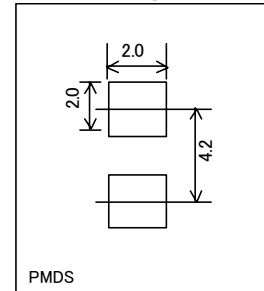
●Features
1) Small power mold type.
(PMDS)
2) Low I_R
3) High reliability

●Construction
Silicon epitaxial planar

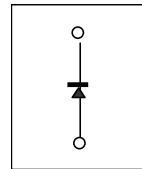
●External dimensions (Unit : mm)



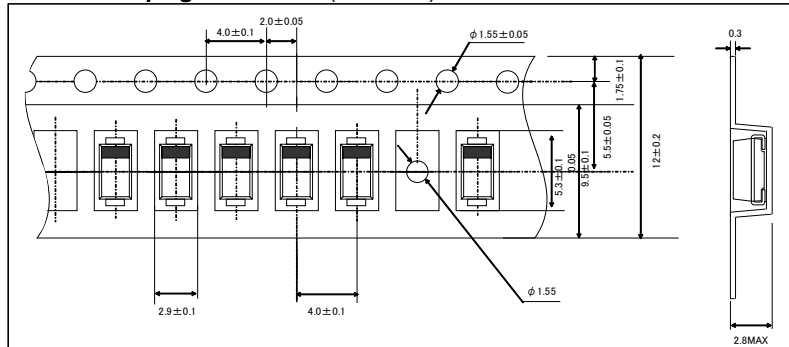
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 95 | V |
| Reverse voltage (DC) | V_R | 90 | V |
| Average rectified forward current | I_o | 1 | A |
| Forward current surge peak (60Hz·1cyc) | I_{FSM} | 30 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -40 to +150 | °C |

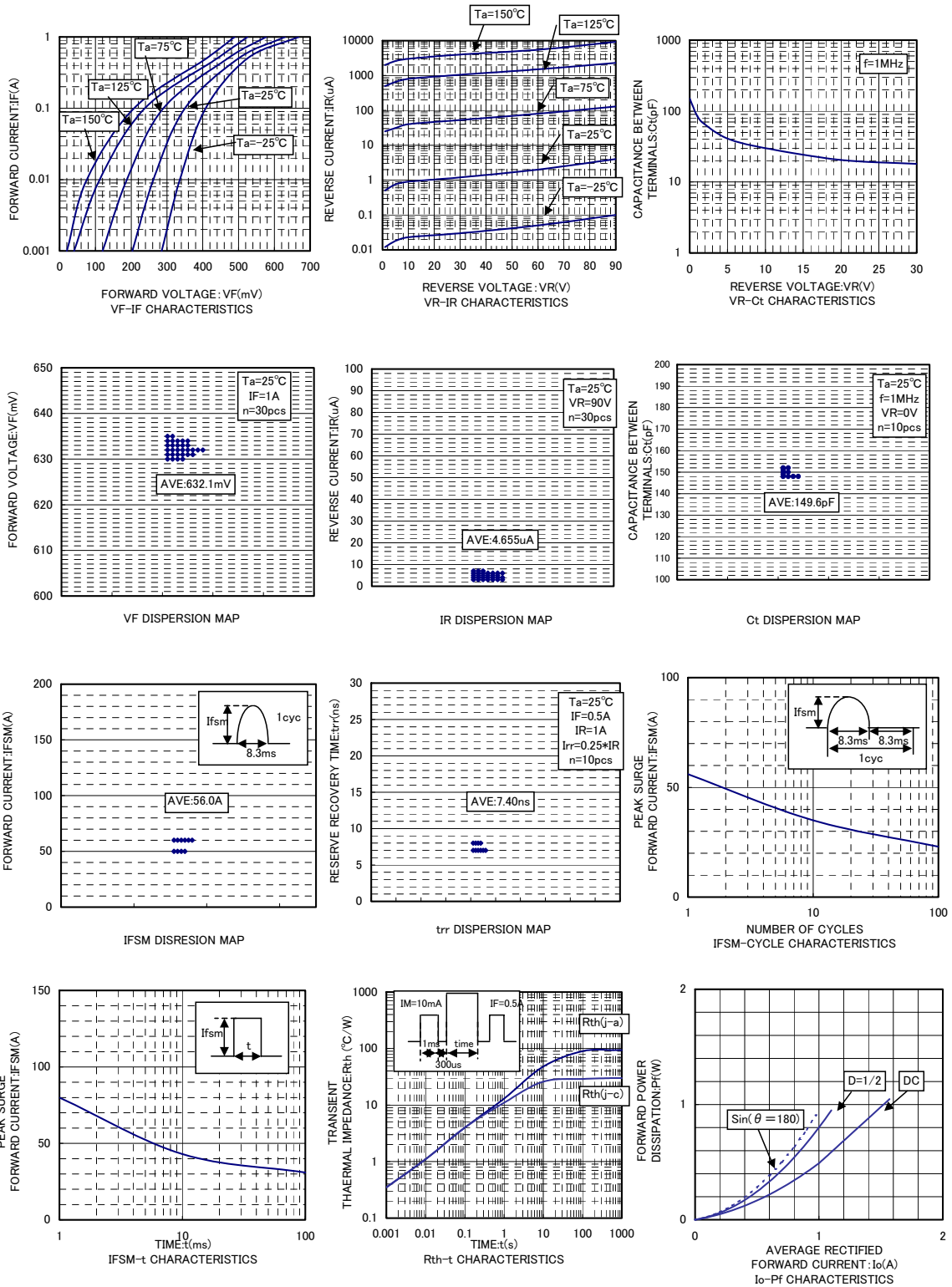
(*1) Mounted on epoxy board. 180°Half sine wave

●Electrical characteristic (Ta=25°C)

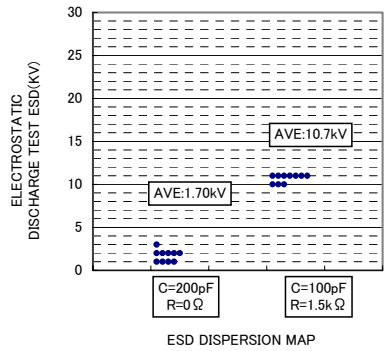
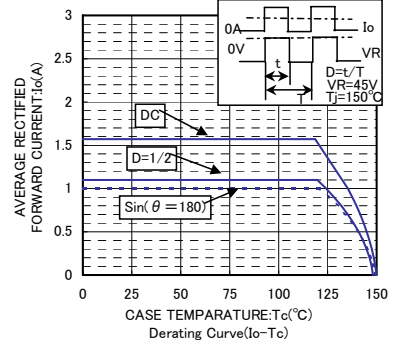
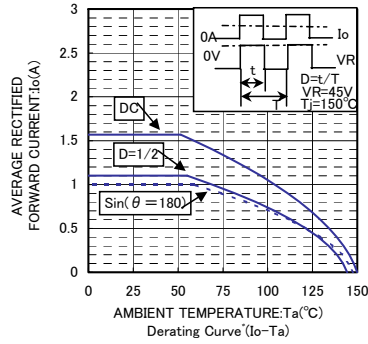
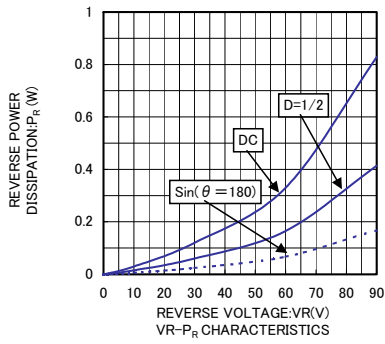
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|------|------------|
| Forward voltage | V_F | - | - | 0.73 | V | $I_F=1.0A$ |
| Reverse current | I_R | - | - | 100 | μA | $V_R=90V$ |

Diodes

●Electrical characteristic curves



Diodes



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