

Fast recovery Diode

RF071M2S

●Applications

General rectification

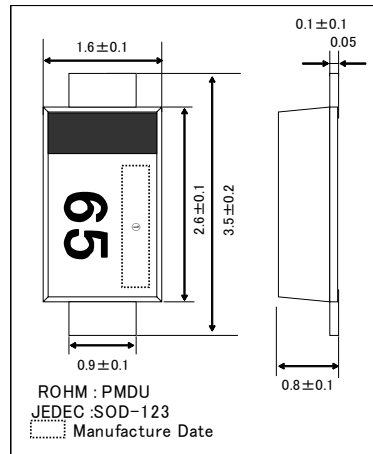
●Features

- 1) Small power mold type. (PMDU)
- 2) Ultra low V_F
- 3) Very fast recovery
- 4) Low switching loss

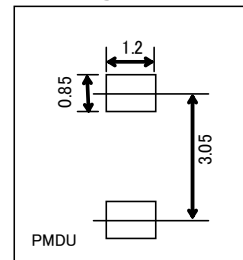
●Construction

Silicon epitaxial planar

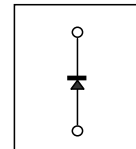
●Dimensions (Unit : mm)



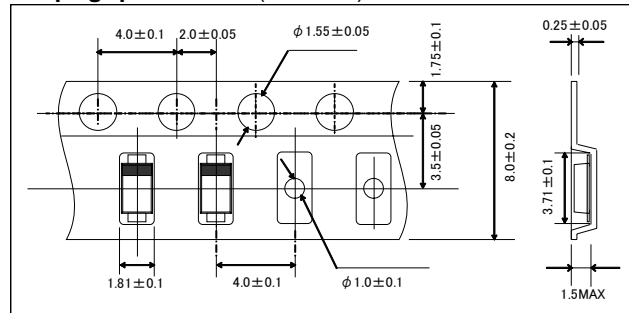
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Reverse voltage (repetitive) | V_{RM} | 200 | V |
| Reverse voltage (DC) | V_R | 200 | V |
| Forward current (DC) | I_F | 1 | A |
| Average rectified forward current (*1) | I_o | 0.7 | A |
| Forward current surge peak (60Hz·1cyc) | I_{FSM} | 15 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

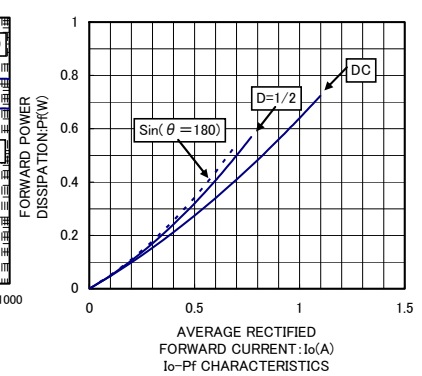
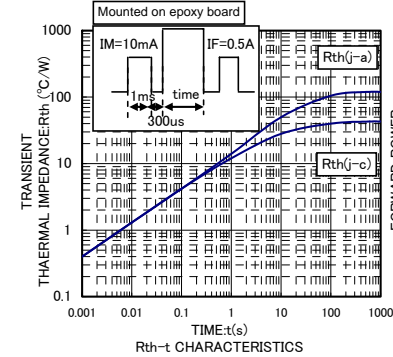
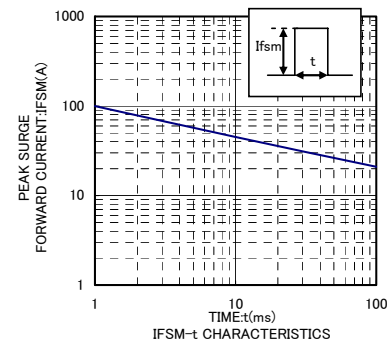
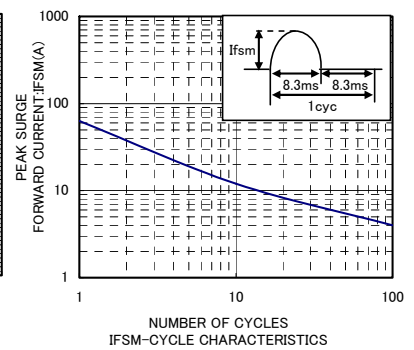
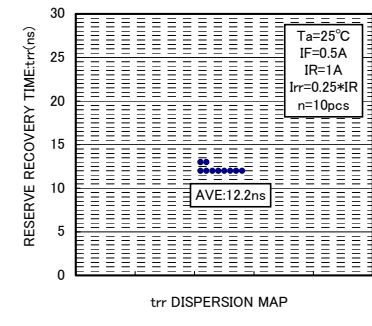
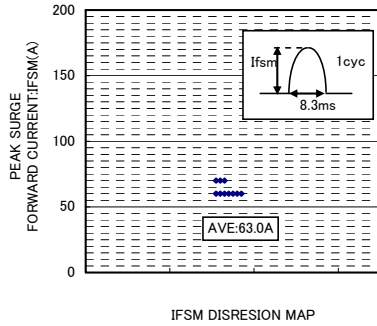
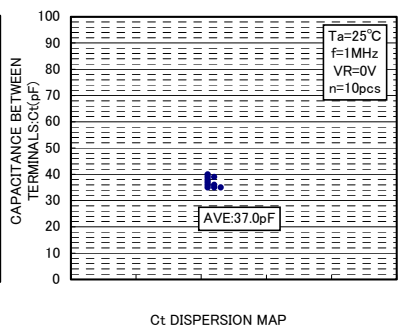
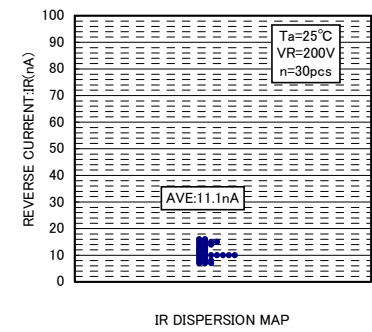
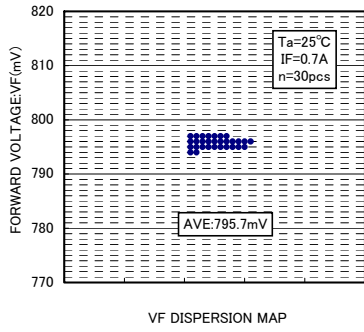
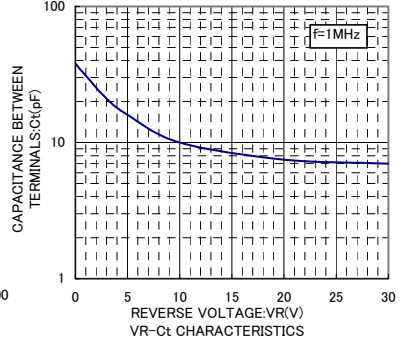
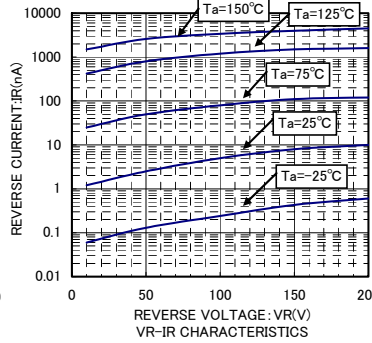
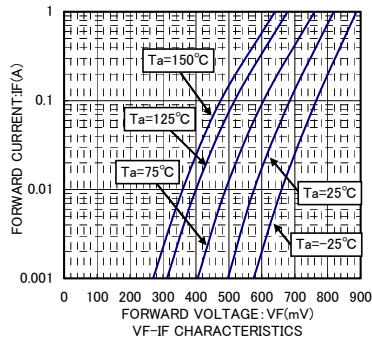
(*1)Mounting on epoxy board. 180°Half sine wave

●Electrical characteristics (Ta=25°C)

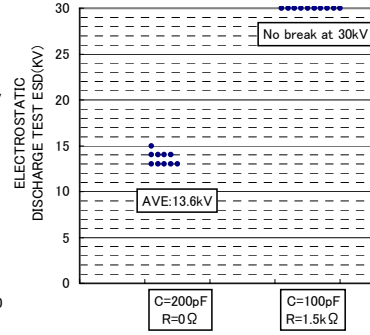
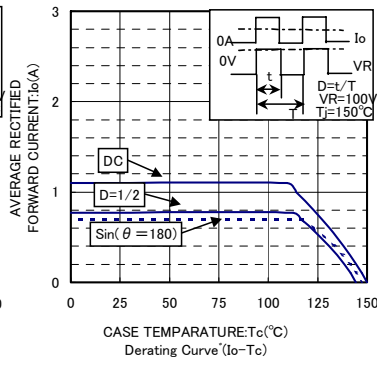
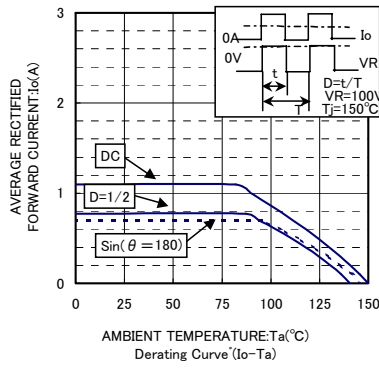
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------------|----------|------|------|------|------|-------------------------------------|
| Forward voltage | V_F | - | 0.79 | 0.85 | V | $I_F=0.7A$ |
| Reverse current | I_R | - | 0.01 | 10 | μA | $V_R=200V$ |
| Reverse recovery time | t_{rr} | - | 12 | 25 | ns | $I_F=0.5A, I_R=1A, I_{rr}=0.25*I_R$ |

Diodes

●Electrical characteristic curves (Ta=25°C)



Diodes



ESD DISPERSION MAP

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