

Super Fast Recovery Diode

RF08L6S

●Series

Standard Fast Recovery

●Applications

General rectification

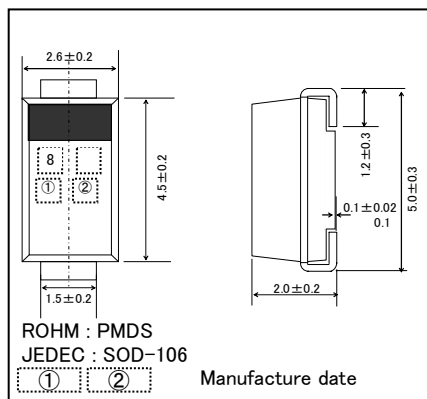
●Features

- 1) Small power mold type. (PMDS)
- 2) high switching speed
- 3) Low forward voltage

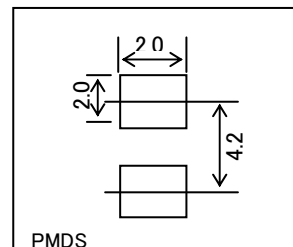
●Construction

Silicon epitaxial planar

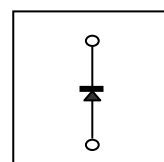
●Dimensions (Unit : mm)



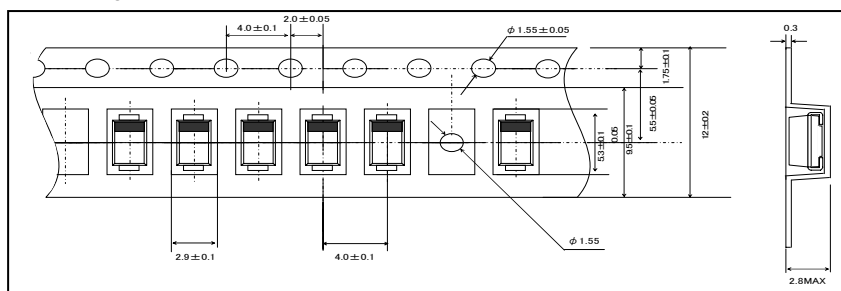
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)

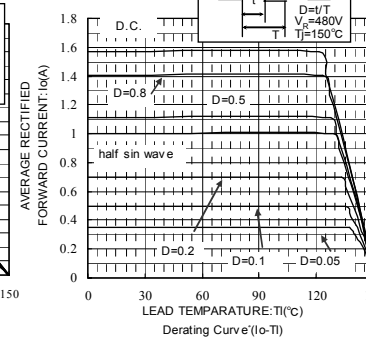
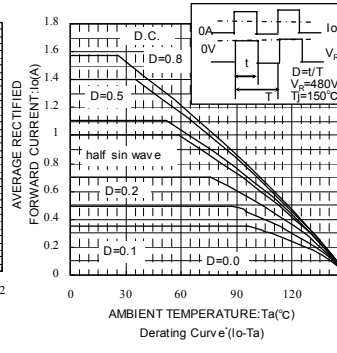
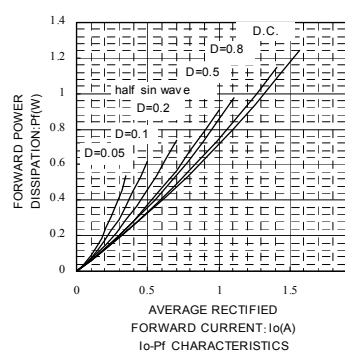
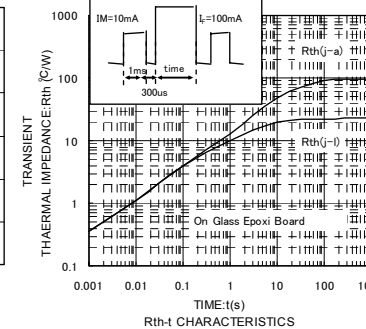
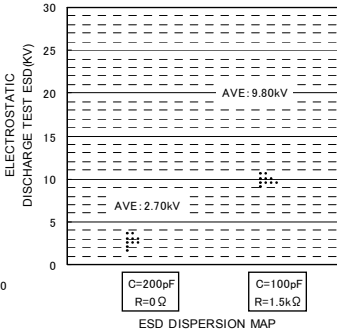
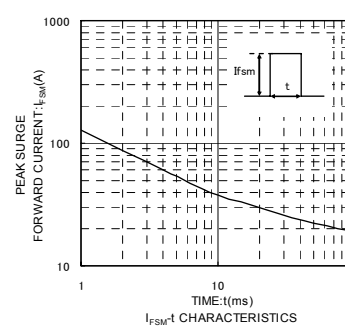
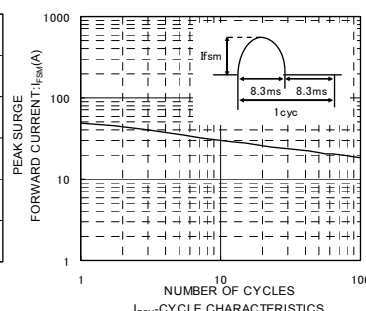
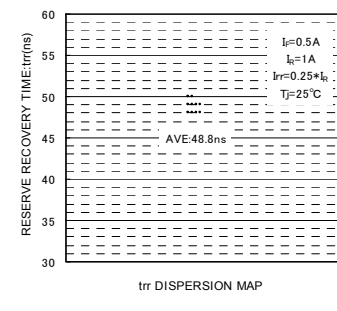
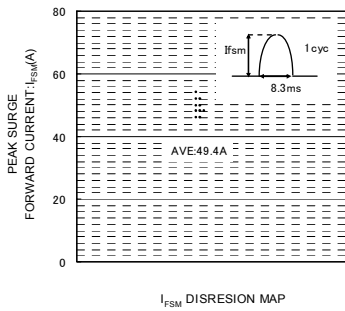
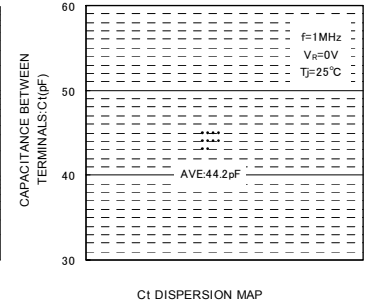
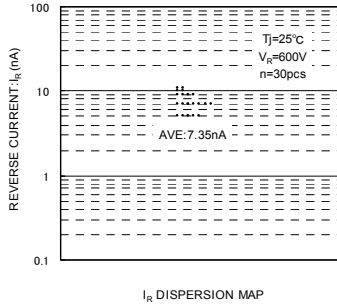
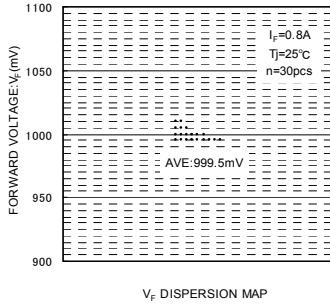
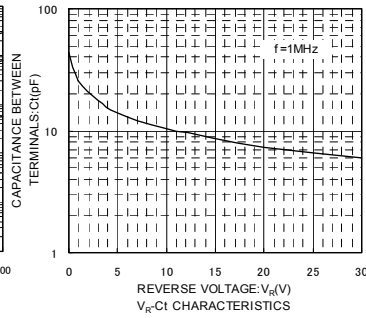
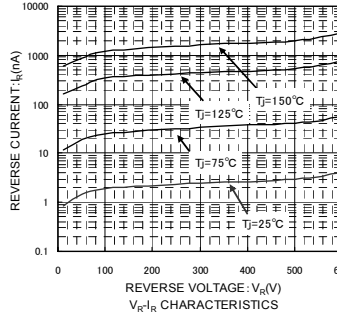
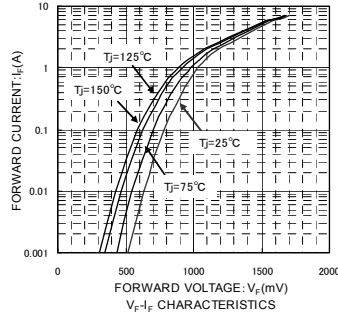


●Absolute maximum ratings (Tl=25°C)

| Parameter | Symbol | Conditions | Limits | Unit |
|-----------------------------------|-----------|--|---|------------------|
| Repetitive peak Reverse voltage | V_{RM} | $D \leq 0.5$ | 600 | V |
| Reverse voltage | V_R | Direct voltage | 600 | V |
| Average rectified forward current | I_o | Glass epoxy substrate mounted | 0.8 | A |
| Forward current surge peak | I_{FSM} | 60Hz half sin wave, Non-repetitive one cycle peak value, $T_j = 25^\circ\text{C}$ | $T_a = 25^\circ\text{C}$ $T_l = 100^\circ\text{C}$ | 20 A |
| Junction temperature | T_j | | 150 | $^\circ\text{C}$ |
| Storage temperature | T_{stg} | | -55to+150 | $^\circ\text{C}$ |

●Electrical characteristics (Tj=25°C)

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|---------------|--|------|------|------|---------------------------|
| Forward voltage | V_F | $I_F = 0.8\text{A}$ | — | 1 | 1.3 | V |
| Reverse current | I_R | $V_R = 600\text{V}$ | — | 0.01 | 10 | μA |
| Reverse recovery time | t_{rr} | $I_F = 0.5\text{A}, I_R = 1\text{A}, I_{rr} = 0.25 \times I_R$ | — | 50 | 70 | ns |
| Thermal Resistance | $R_{th(j-l)}$ | junction to lead | — | — | 23 | $^\circ\text{C}/\text{W}$ |



Notes

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