

Super Fast Recovery Diode

RF2L6S

●Series

Standard Fast Recovery

●Applications

General rectification

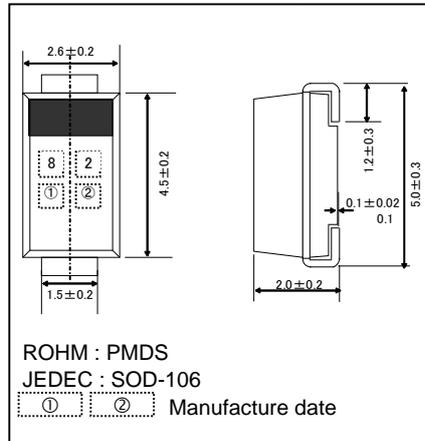
●Features

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

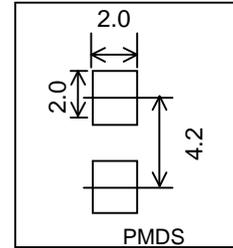
●Construction

Silicon epitaxial planar

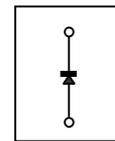
●Dimensions (Unit : mm)



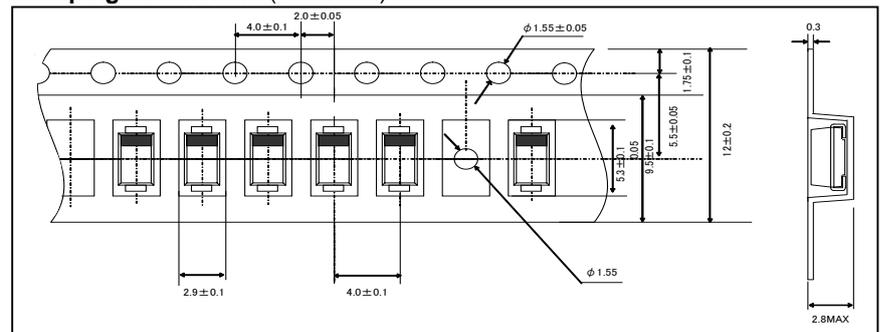
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



●Absolute maximum ratings (Tl=25°C)

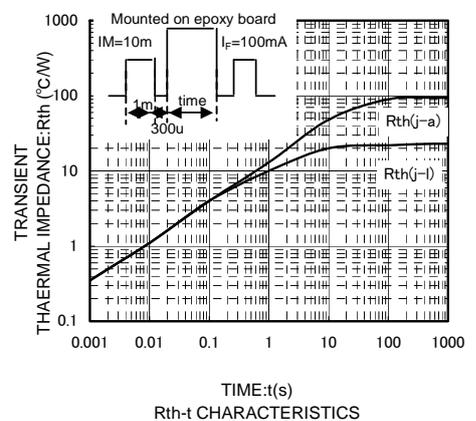
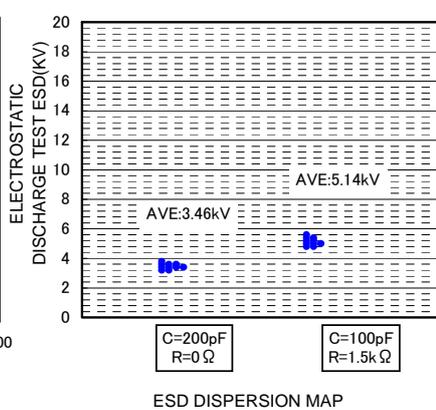
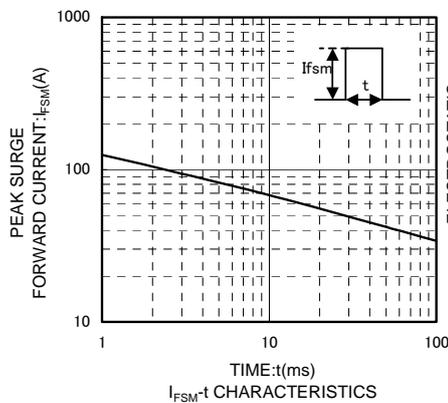
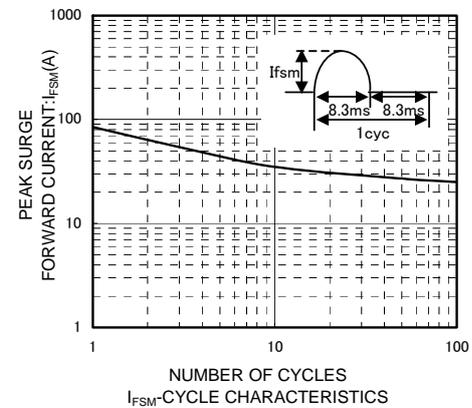
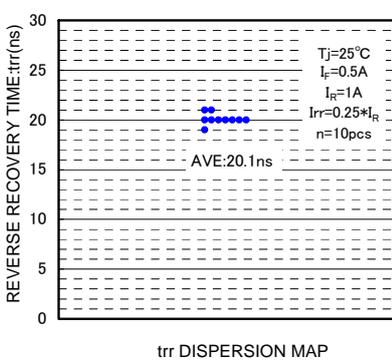
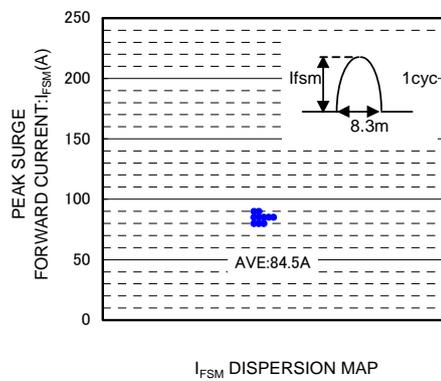
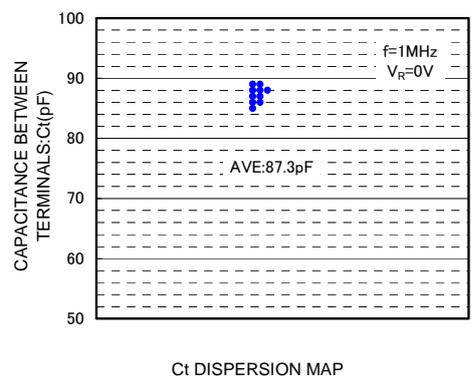
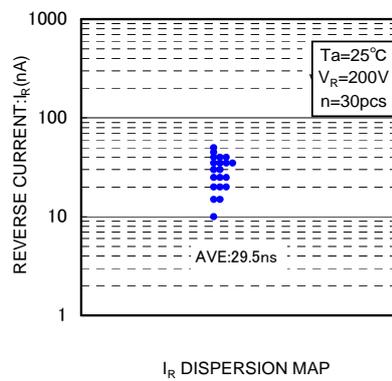
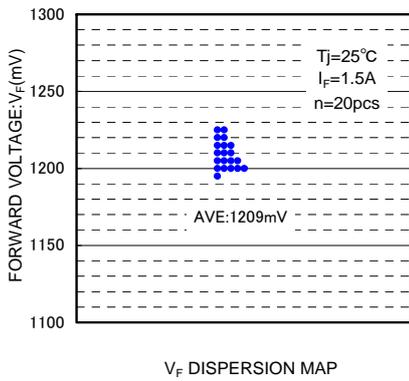
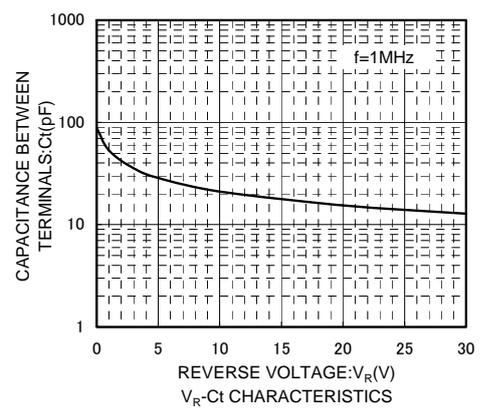
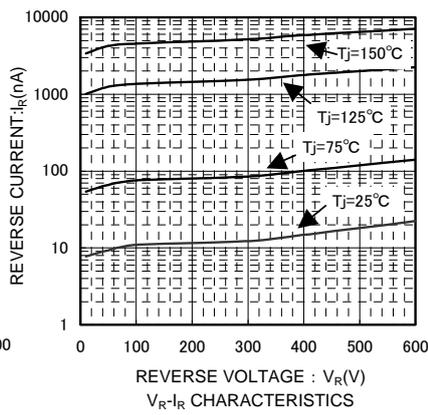
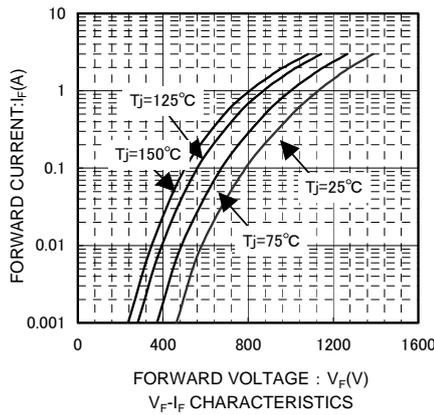
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Repetitive peak Reverse voltage | V_{RM} | 600 | V |
| Reverse voltage | V_R | 600 | V |
| Average rectified forward current(*1) | I_o | 1.5 | A |
| Forward current surge peak (60Hz, 1cyc, Tj=25°C) | I_{FSM} | 40 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -55 to +150 | °C |

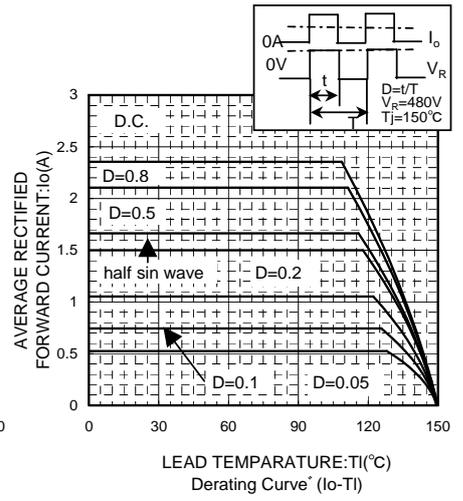
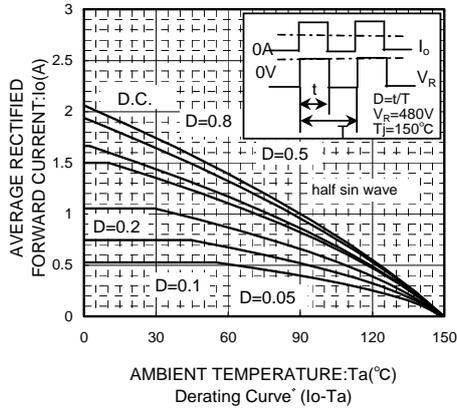
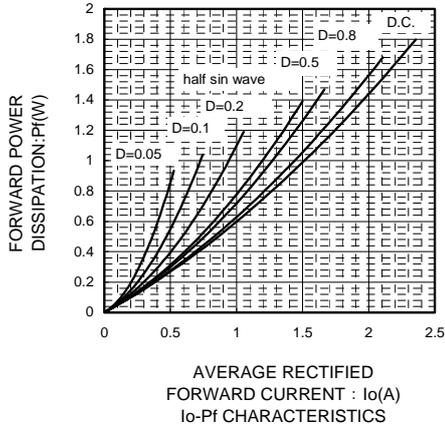
(*1) Half sinwave on the Glass epoxy substrate (size : 50mmx50mm), Tc=90°CMax.

●Electrical characteristics (Tj=25°C)

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------------|---------------|--|------|------|------|------|
| Forward voltage | V_F | $I_F=1.5A$ | - | 1.25 | 1.55 | V |
| Reverse current | I_R | $V_R=600V$ | - | 0.03 | 10 | μA |
| Reverse recovery time | t_{rr} | $I_F=0.5A, I_R=1A, I_{rr}=0.25 \times I_R$ | - | 20 | 35 | ns |
| Thermal Resistance | $R_{th(j-l)}$ | junction to lead | - | - | 23 | °C/W |

●Electrical characteristics curves





Notes

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