

Rectifier diode

1SR139-400

●Applications

High speed rectification

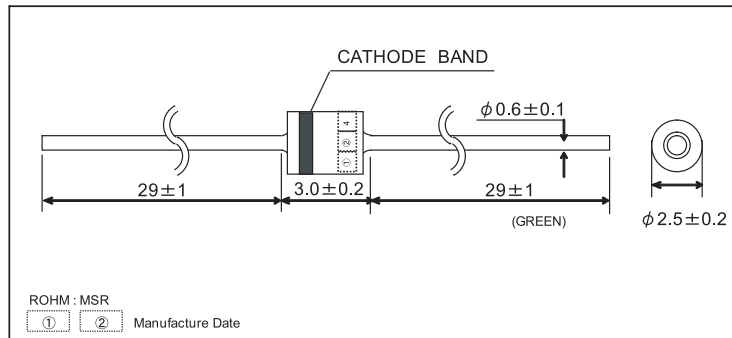
●Features

- 1) Cylindrical mold. (MSR)
- 2) High reliability.
- 3) Fast recovery speed.

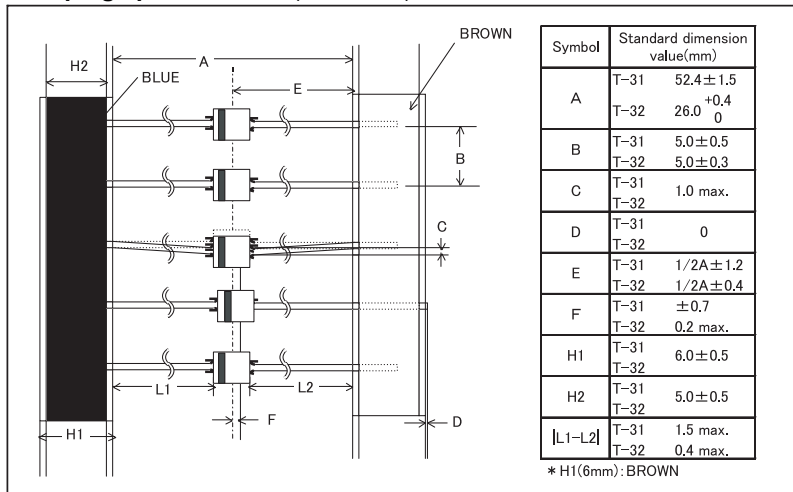
●Construction

Silicon diffused junction

●Dimensions (Unit : mm)



●Taping specifications (Unit : mm)



●Absolute maximum ratings (Ta=25°C)

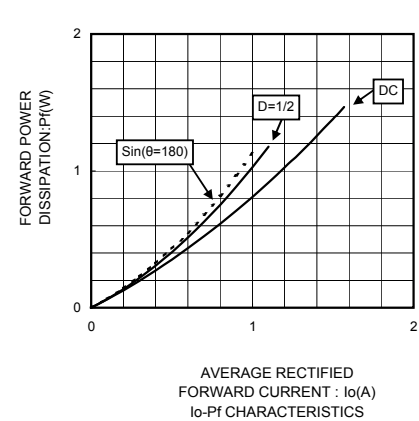
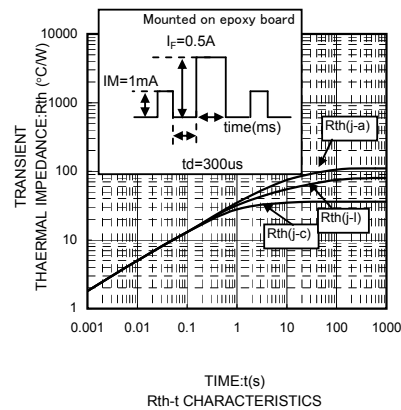
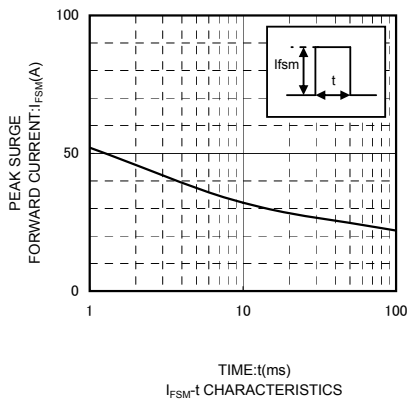
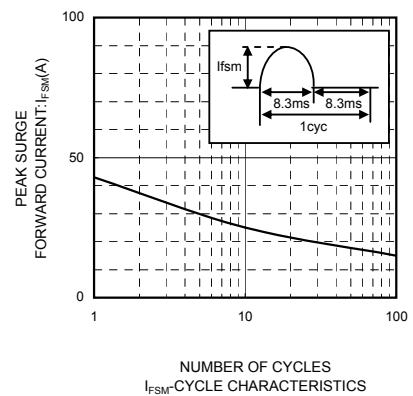
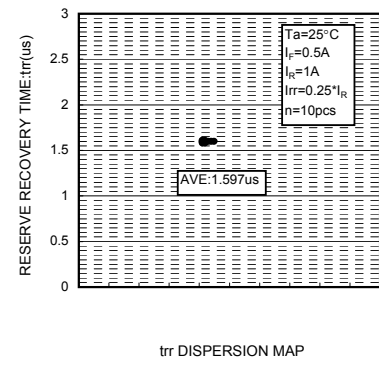
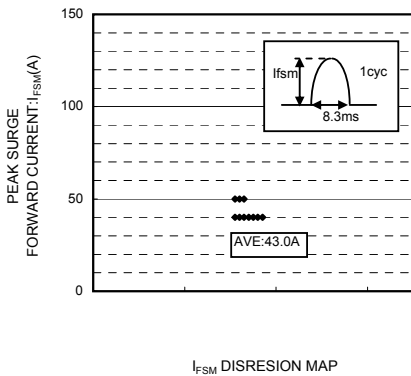
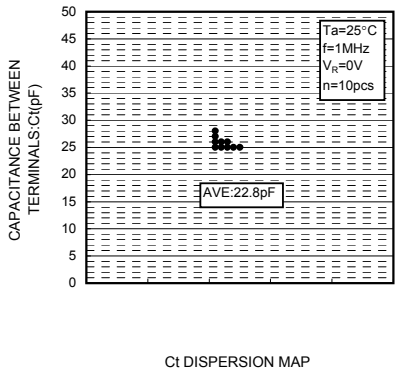
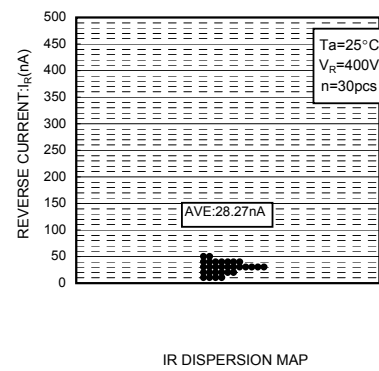
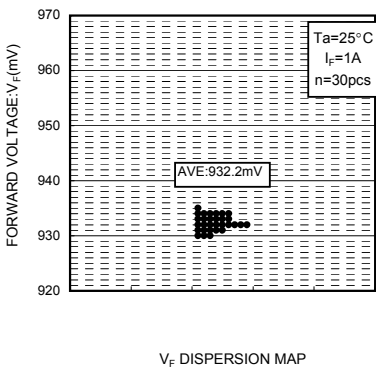
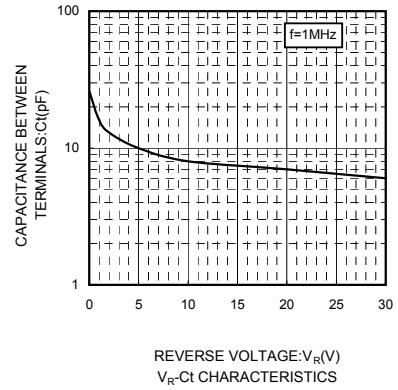
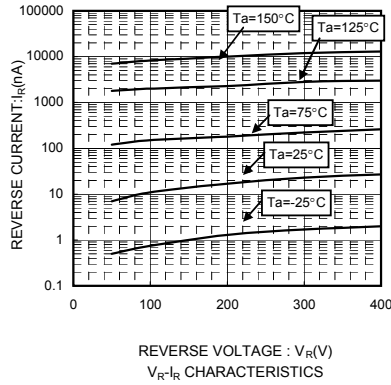
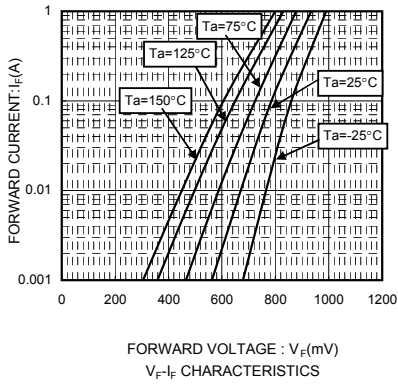
| Parameter | Symbol | Limits | Unit |
|--|-----------|-------------|------|
| Absolute peak reverse voltage | V_{RMS} | 500 | V |
| Reverse voltage (repetitive peak) | V_R | 400 | V |
| Average rectified forward current (*1) | I_o | 1 | A |
| Forward current surge peak (60Hz / 1cyc) | I_{FSM} | 40 | A |
| Junction temperature | T_j | 150 | °C |
| Storage temperature | T_{stg} | -40 to +150 | °C |

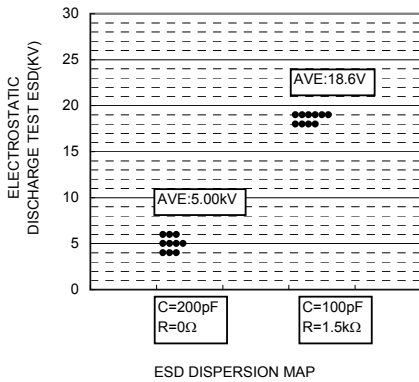
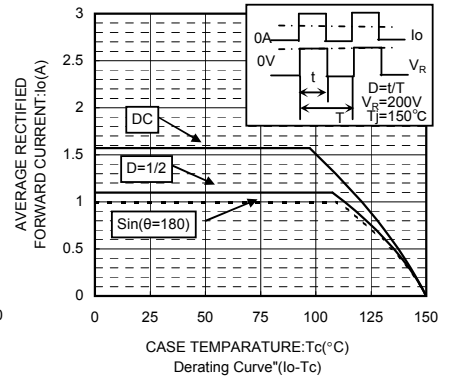
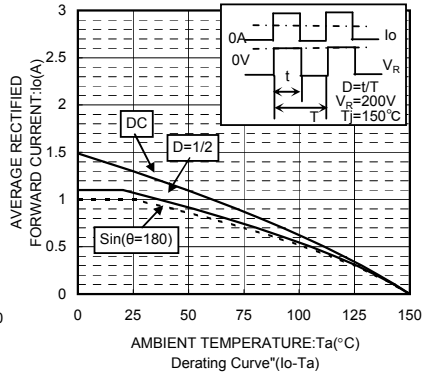
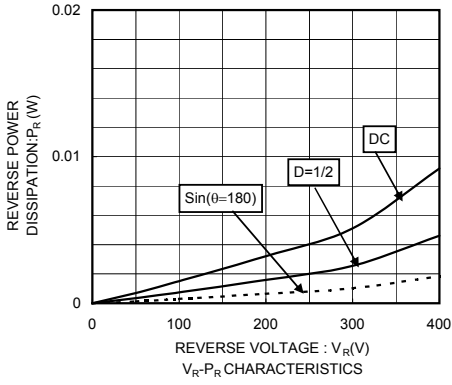
(*1)Mounting on alumina board

●Electrical characteristics (Ta=25°C)

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|------|------------|
| Forward voltage | V_F | - | - | 1.1 | V | $I_F=1.0A$ |
| Reverse current | I_R | - | - | 10 | μA | $V_R=400V$ |

●Electrical characteristics curves





Notes

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