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Silicon Schottky Barrier Diode for Rectifying

RENESAS

ADE-208-1558 (Z)

Rev.0 Nov. 2002

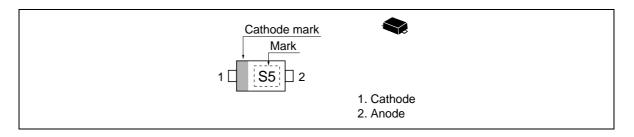
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

| Туре No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HRD0203C | S5 | SFP |

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

| Item | Symbol | Value | Unit | |
|---|---------------------------------|-------------|------|----------|
| Repetitive peak reverse voltage | V _{RRM} * ¹ | 30 | V | |
| Average rectified current | l _o * ¹ | 200 | mA | <u> </u> |
| Non-Repetitive peak forward surge current | FSM *2 | 2 | А | <u> </u> |
| Junction temperature | Tj | 125 | °C | <u> </u> |
| Storage temperature | Tstg | -55 to +125 | °C | |

Notes: 1. See from Fig.3 to Fig.5, with polyimide board.

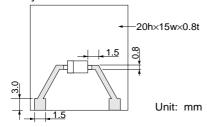
2. 10 ms sine wave 1 pulse.

Electrical Characteristics

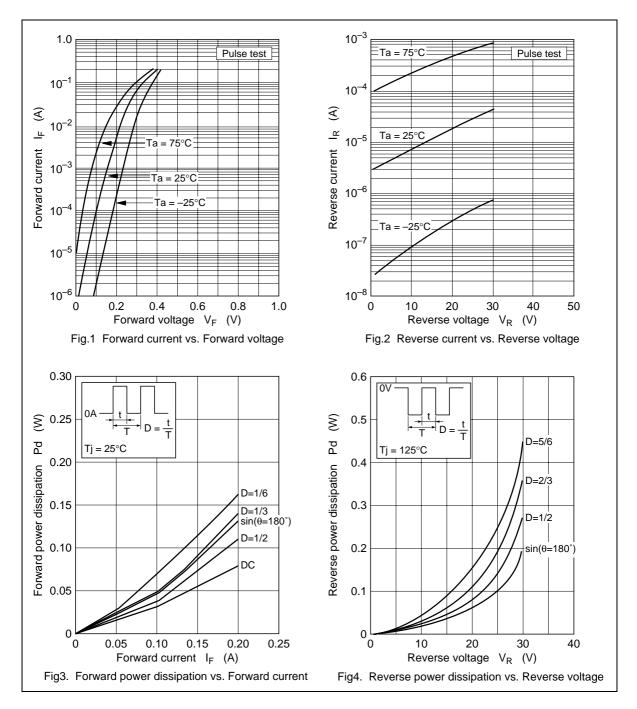
(Ta = 25°C)

| ltem | Symbol | Min | Тур | Max | Unit | Test Condition |
|--------------------|----------------|-----|-----|------|------|-------------------------|
| Forward voltage | $V_{_{F1}}$ | _ | — | 0.25 | V | $I_{F} = 5 \text{ mA}$ |
| | $V_{_{F2}}$ | _ | _ | 0.45 | | I _F = 200 mA |
| Reverse current | I _R | _ | _ | 30 | μΑ | V _R = 10 V |
| Thermal resistance | Rth(j-a) | _ | 600 | _ | °C/W | Polyimide board *1 |

Note: 1. Polyimide board

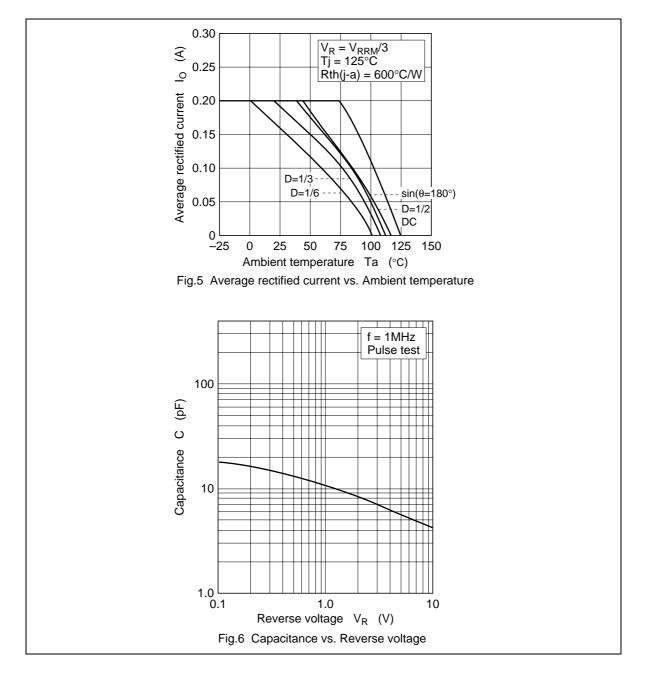


Main Characteristic



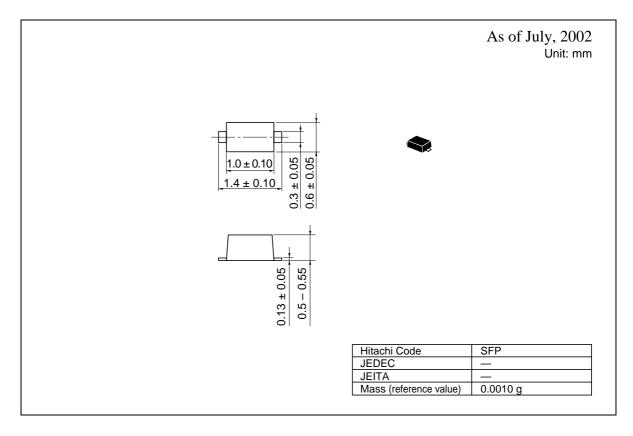
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Main Characteristic (cont)



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Package Dimensions



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