

HRU0103A

Silicon Schottky Barrier Diode for Rectifying

REJ03G0149-0200Z
(Previous: ADE-208-450A)
Rev.2.00
Nov.26.2003

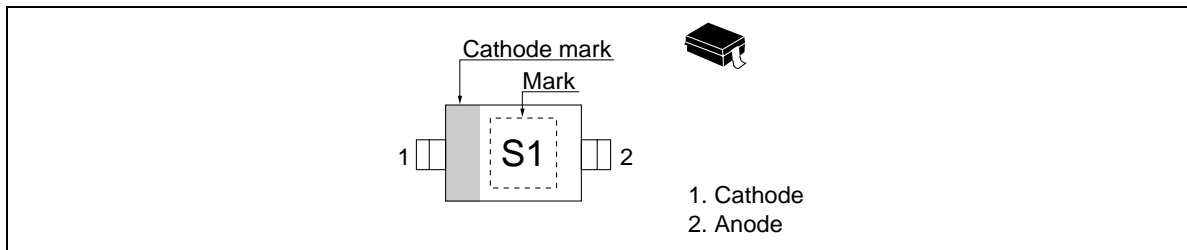
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HRU0103A | S1 | URP |

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

| Item | Symbol | Value | Unit |
|---|----------------|-------------|------|
| Repetitive peak reverse voltage | V_{RRM}^{*1} | 30 | V |
| Average rectified current | I_O^{*1} | 100 | mA |
| Non-Repetitive peak forward surge current | I_{FSM}^{*2} | 3 | A |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

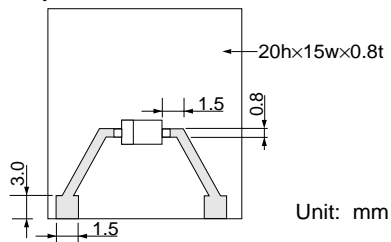
Notes: 1. See from Fig.3 to Fig.5.
 2. 10 ms sine wave 1 pulse.

Electrical Characteristics

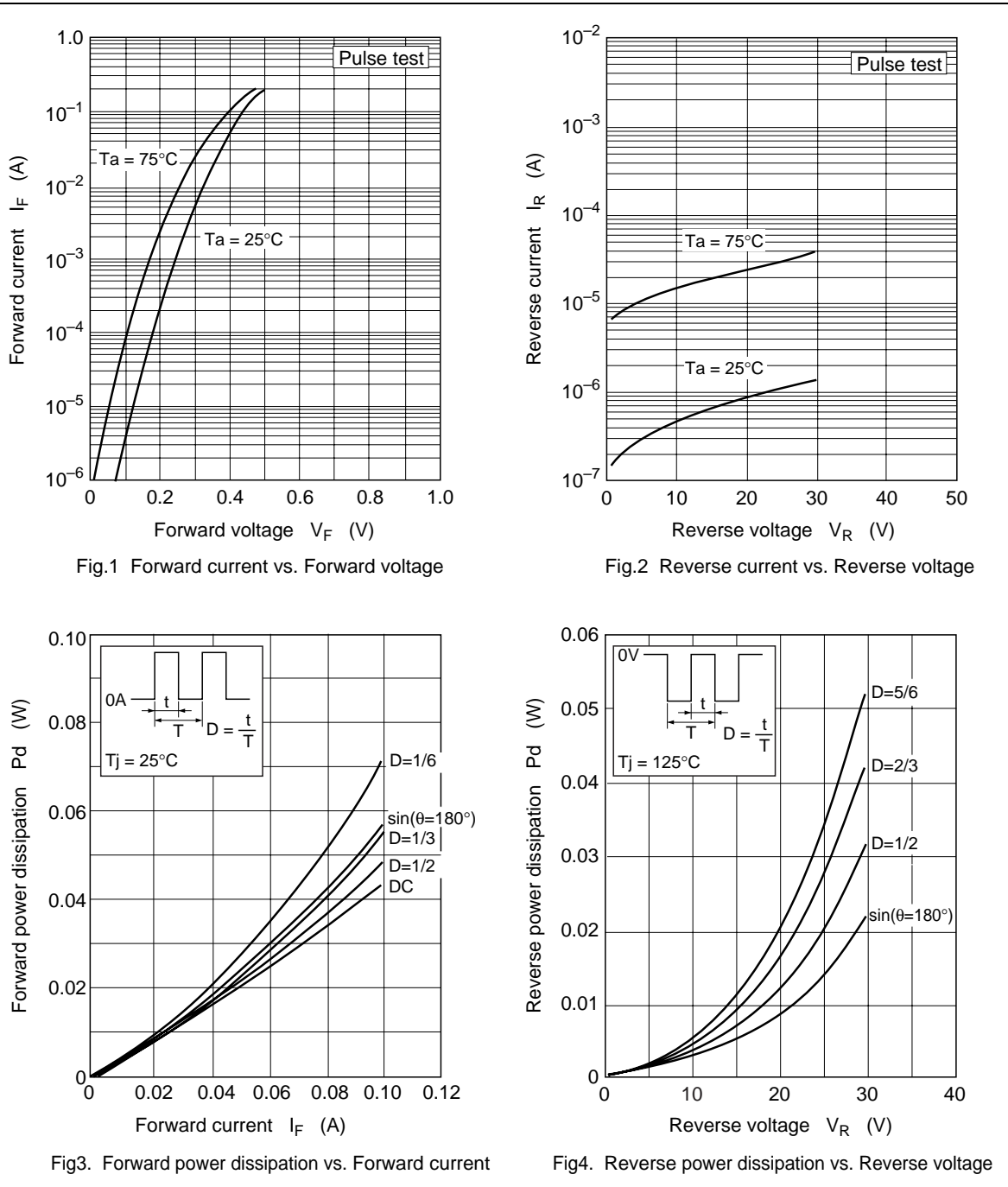
(Ta = 25°C)

| Item | Symbol | Min | Typ | Max | Unit | Test Condition |
|--------------------|---------------|-----|-----|------|------|-------------------------------|
| Forward voltage | V_F | — | — | 0.44 | V | $I_F = 100 \text{ mA}$ |
| Reverse current | I_R | — | — | 50 | μA | $V_R = 30 \text{ V}$ |
| Thermal resistance | $R_{th(j-a)}$ | — | 600 | — | °C/W | Polyimide board ^{*1} |

Note: 1. Polyimide board



Main Characteristics



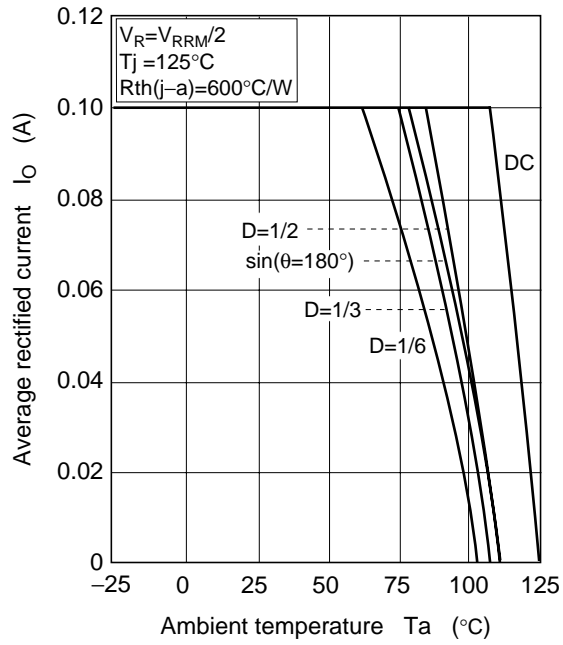
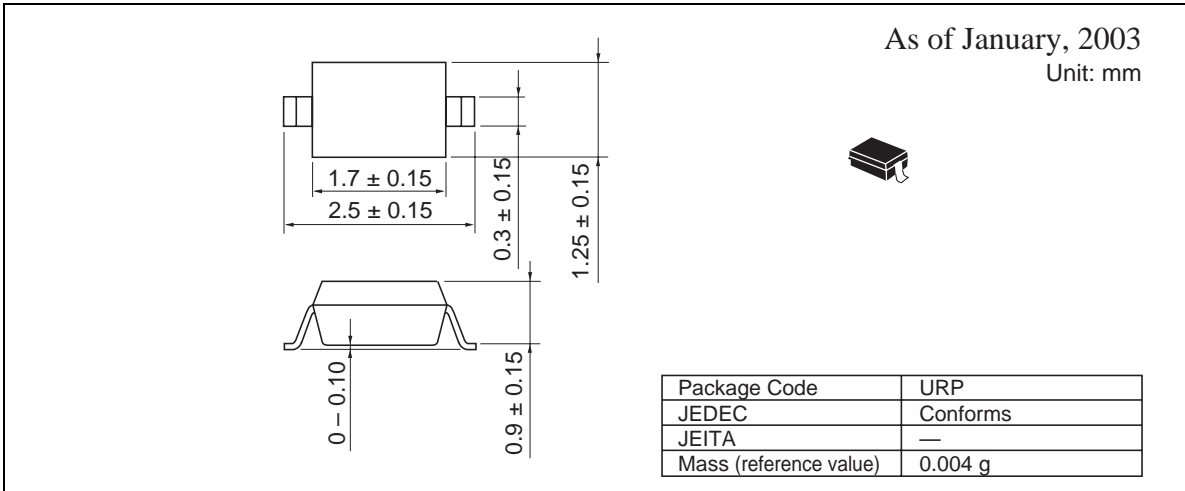


Fig.5 Average rectified current vs. Ambient temperature

Package Dimensions



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