

## HRU0103A

### Silicon Schottky Barrier Diode for Rectifying

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

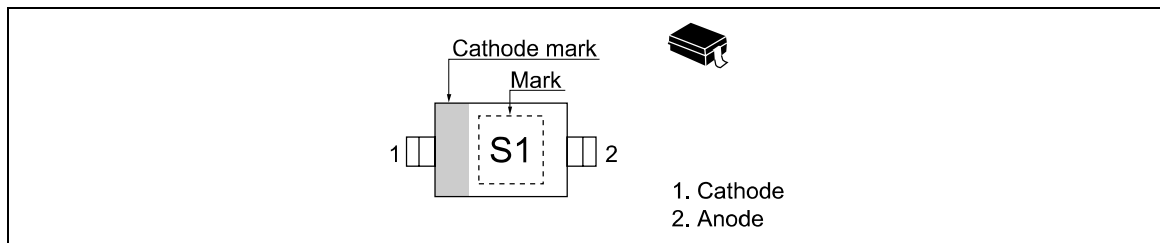
#### Features

- 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   |

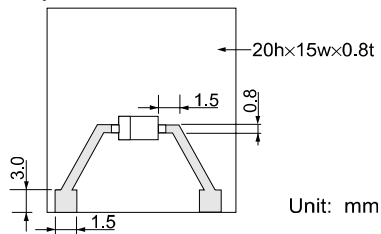
Notes: 1. See from Fig.3 to Fig.5.  
 2. 10 ms sine wave 1 pulse.

### Electrical Characteristics

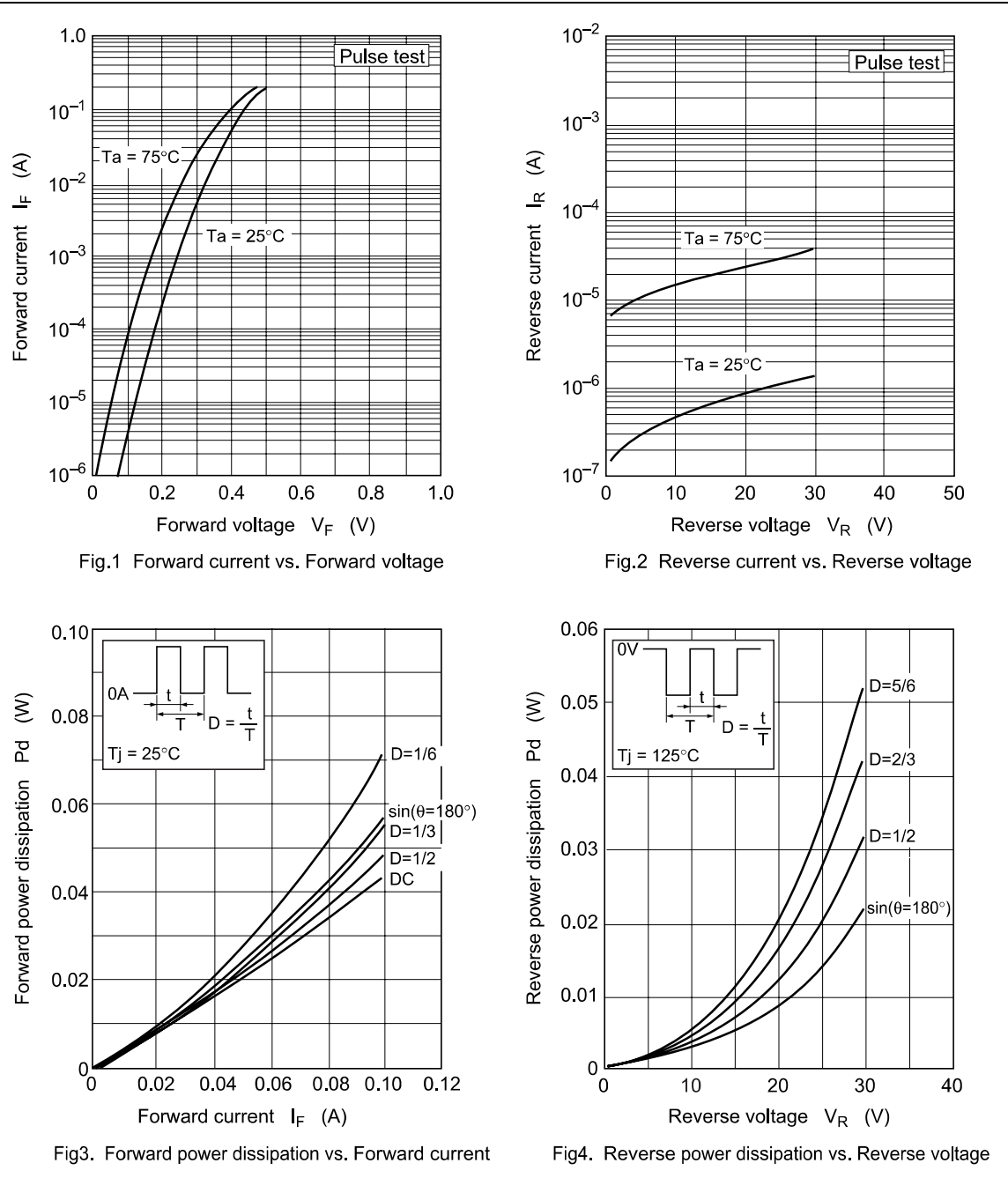
(Ta = 25°C)

| 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   | $\mu\text{A}$ | $V_R = 30 \text{ V}$          |
| Thermal resistance | $R_{th(j-a)}$ | —   | 600 | —    | °C/W          | Polyimide board <sup>*1</sup> |

Note: 1. Polyimide board



Main Characteristics



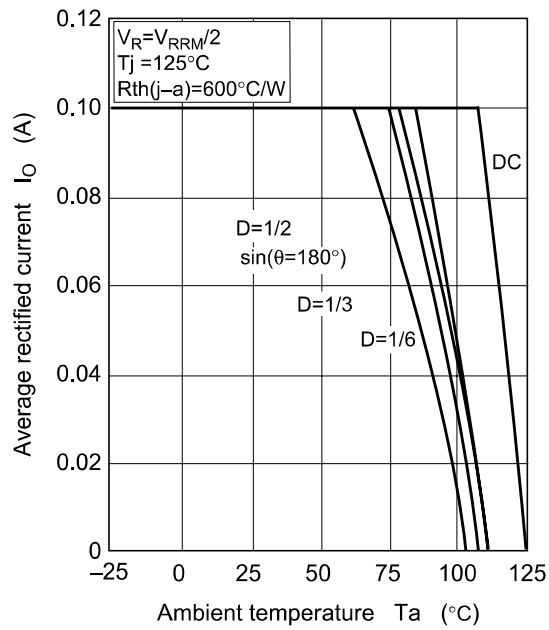


Fig.5 Average rectified current vs. Ambient temperature

Package Dimensions

