

HRC0103C

Silicon Schottky Barrier Diode for Rectifying

REJ03G0069-0100Z

(Previous: ADE-208-1598) Rev.1.00

Aug.29.2003

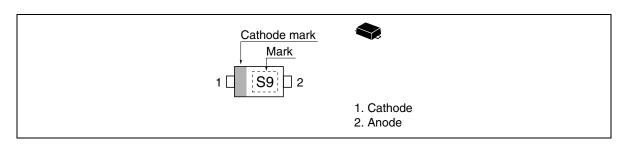
Features

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

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HRC0103C | S9 | UFP |

Pin Arrangement



Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit | |
|---|---------------------|-------------|------|--|
| Peak reverse voltage | V _{RM} *1 | 30 | V | |
| Reverse voltage | V _R | 30 | V | |
| Average rectified current | l _o *1 | 100 | mA | |
| Peak forward surge current | I _{FM} | 300 | mA | |
| Non-Repetitive peak forward surge current | I _{FSM} *2 | 1 | Α | |
| Junction temperature | Tj | 125 | °C | |
| Storage temperature | Tstg | -55 to +125 | °C | |

Notes: 1. See from Fig.3 to Fig.5.

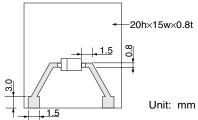
2. 10 ms sine wave 1 pulse.

Electrical Characteristics

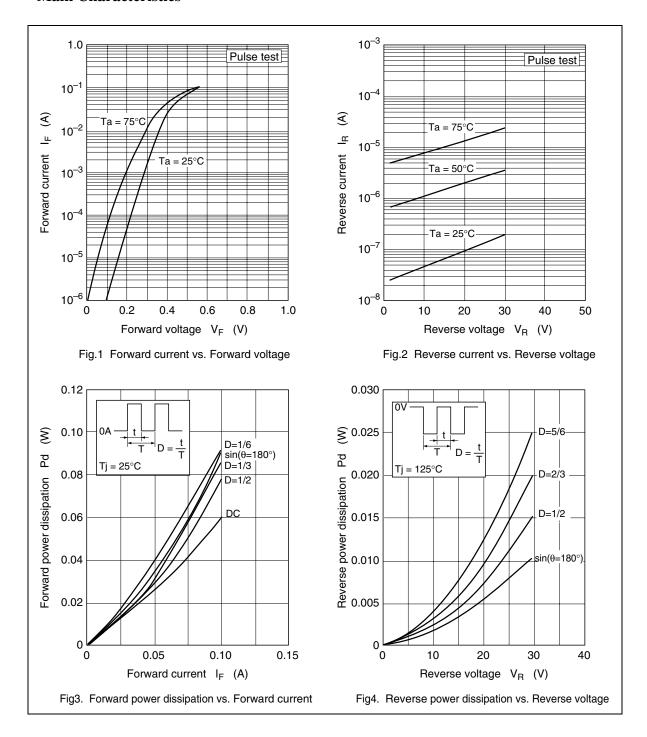
 $(Ta = 25^{\circ}C)$

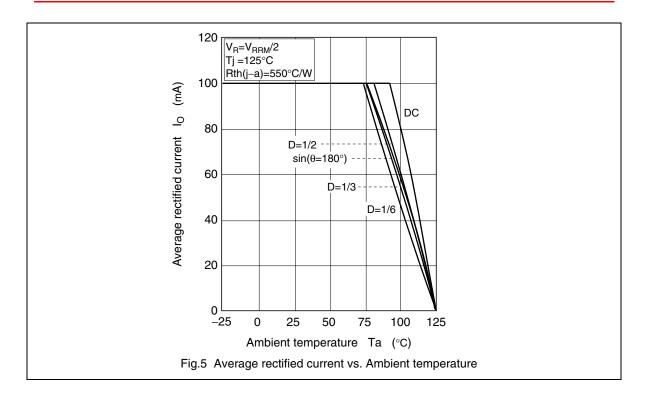
| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|--------------------|-----------------|-----|-----|-----|-------------|-----------------------------------|
| Forward voltage | V _{F1} | _ | _ | 0.4 | V | I _F = 10 mA |
| | V _{F2} | _ | | 0.6 | | I _F = 100 mA |
| Reverse current | I _{R1} | _ | _ | 0.1 | μΑ | V _R = 5 V |
| | I _{R2} | _ | _ | 0.2 | | V _R = 10 V |
| Capacitance | С | _ | _ | 8.0 | pF | V _R = 0.5 V, f = 1 MHz |
| Thermal resistance | Rth(j-a) | _ | 550 | _ | °C/W | Polyimide board *1 |

Note: 1. Polyimide board

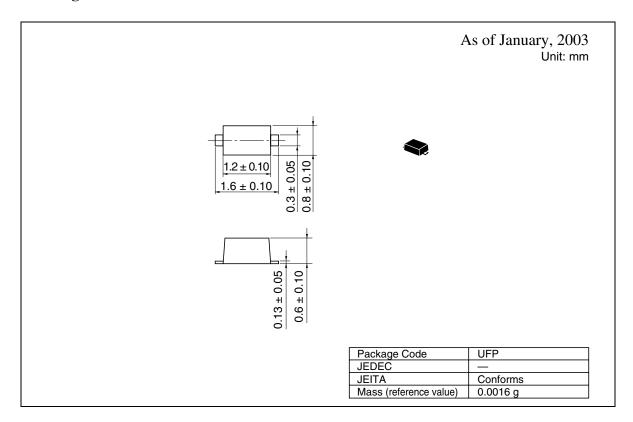


Main Characteristics





Package Dimensions



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