RENESAS

HRW0703A

Silicon Schottky Barrier Diode for Rectifying

REJ03G0160-0600Z (Previous: ADE-208-110E) Rev.6.00 Jan.06.2004

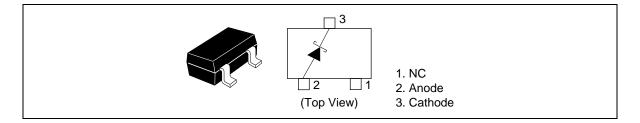
Features

- Low forward voltage drop and suitable for high efficiency rectifying.
- MPAK Package is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Туре No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HRW0703A | S8 | МРАК |

Pin Arrangement





Absolute Maximum Ratings

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

| Item | Symbol | Value | Unit | |
|---|-------------------------------|-------------|------|--|
| Repetitive peak reverse voltage | V _{RRM} *1 | 30 | V | |
| Forward current | l _F * ¹ | 700 | mA | |
| Non-Repetitive peak forward surge current | FSM *2 | 5 | A | |
| Junction temperature | Тј | 125 | °C | |
| Storage temperature | Tstg | -55 to +125 | °C | |

Notes: 1. See from Fig.4 to Fig.7.

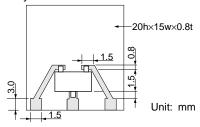
2. 50 Hz sine wave 1 pulse

Electrical Characteristics

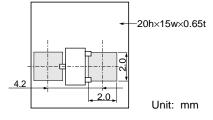
 $(Ta = 25^{\circ}C)$

| ltem | Symbol | Min | Тур | Мах | Unit | Test Condition |
|--------------------|----------------|-----|-----|-----|------|------------------------------|
| Forward voltage | V _F | _ | _ | 0.5 | V | I _F = 700 mA |
| Reverse current | I _R | _ | _ | 100 | μΑ | V _R = 30 V |
| Capacitance | С | _ | 150 | _ | pF | $V_{R} = 0 V, f = 1 MHz$ |
| Thermal resistance | Rth1(j-a) | _ | 390 | | °C/W | Polyimide board ¹ |
| | Rth2(j-a) | _ | 290 | — | °C/W | Ceramic board ^{*2} |

Notes: 1. Polyimide board



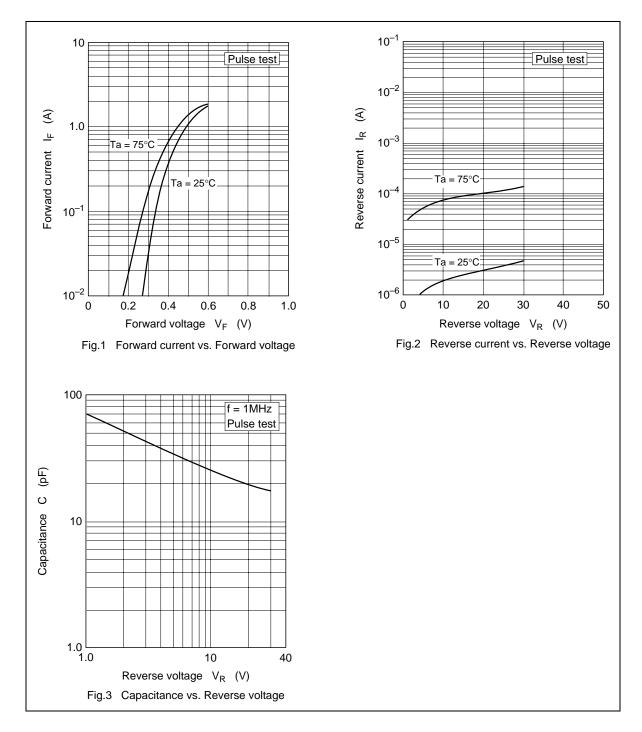
2. Ceramic board





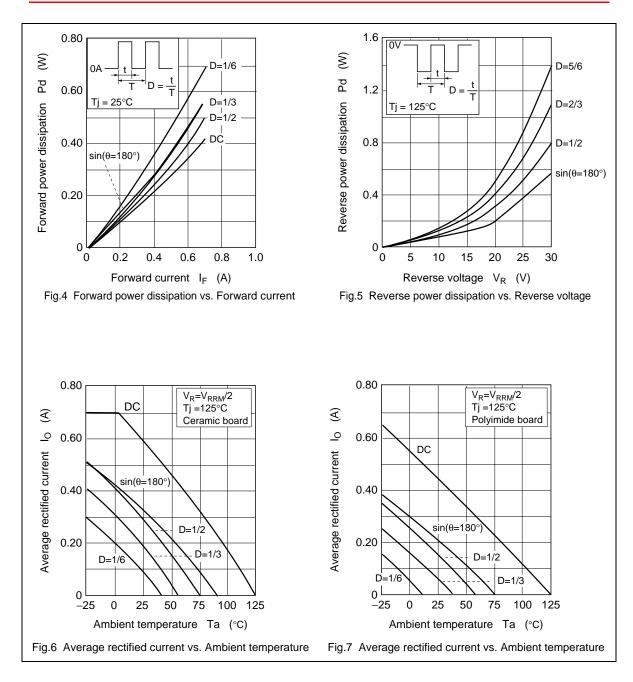
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Main Characteristic





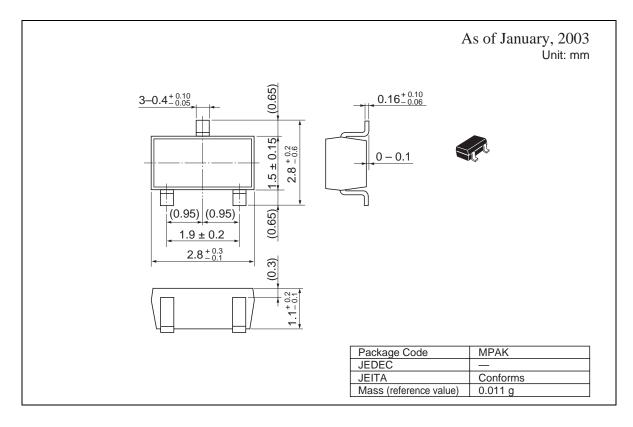
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Package Dimensions





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