

# **RKR104BKU**

## Silicon Schottky Barrier Diode for Rectifying

R07DS0687EJ0100 Rev.1.00 Jun 12, 2012

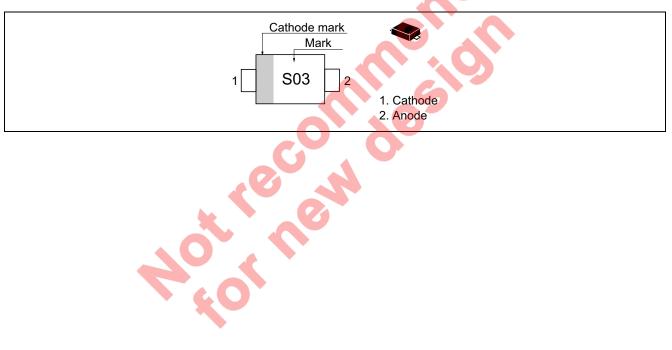
#### Features

- Low reverse current and suitable for high efficiency rectifying.
- Ultra small Resin Package (TURP-FM) is suitable for compact and high-density surface mount design.

### **Ordering Information**

| Part No        | Laser Mark | Package Name | Package Code | Taping Abbreviation<br>(Quantity) |  |
|----------------|------------|--------------|--------------|-----------------------------------|--|
| RKR104BKU # P6 | S03        | TURP-FM      | PUSF0002ZD-A | P6 (4,000pcs / reel)              |  |

#### **Pin Arrangement**





## **Absolute Maximum Ratings**

|   |                                 |             | $(Ta = 25^{\circ}C)$ |
|---|---------------------------------|-------------|----------------------|
| Item                                      | Symbol                          | Value       | Unit                 |
| Repetitive peak reverse voltage           | V <sub>RRM</sub>                | 40          | V                    |
| Reverse voltage                           | V <sub>R</sub>                  | 40          | V                    |
| Average rectified current                 | lo* <sup>1</sup> * <sup>2</sup> | 1           | А                    |
| Non-Repetitive peak forward surge current | I <sub>FSM</sub> * <sup>3</sup> | 4           | А                    |
| Junction temperature                      | Тј                              | 150         | °C                   |
| Storage temperature                       | Tstg                            | -55 to +150 | °C                   |

Notes: 1. See Fig.6. With Ceramics board.

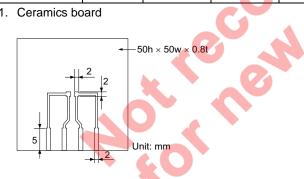
2. Ta = 28°C, With Ceramics board (board size: 50 mm  $\times$  50 mm, Land size 2 mm  $\times$  2 mm) Short form wave ( $\theta$  = 180°C) V<sub>R</sub> = 20 V.

3. 10 ms sin wave 1 pulse.

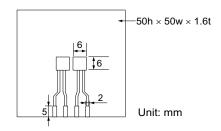
#### **Electrical Characteristics**

|                    |                 |     |                    |      |      | $(Ta = 25^{\circ}C)$    |
|--------------------|-----------------|-----|--------------------|------|------|-------------------------|
| Item               | Symbol          | Min | Тур                | Max  | Unit | Test Condition          |
| Forward voltage    | $V_{F1}$        |     | -                  | 0.37 | V    | I <sub>F</sub> = 100 mA |
|                    | V <sub>F3</sub> | _   |                    | 0.55 | 6    | I <sub>F</sub> = 700 mA |
| Reverse current    | I <sub>R1</sub> | _   |                    | 10   | μA   | $V_R = 5 V$             |
|                    | I <sub>R2</sub> |     |                    | 50   |      | $V_R = 40 V$            |
| Capacitance        | С               | _   | —                  | 30   | pF   | $V_R = 10 V f = 1 MHz$  |
| Thermal resistance | Rth(j-a)        | _   | 110                | —    | °C/W | Ceramics board *1       |
|                    |                 | _   | 2 <mark>2</mark> 0 | —    | 9    | Glass epoxy board *2    |

Notes: 1. Ceramics board

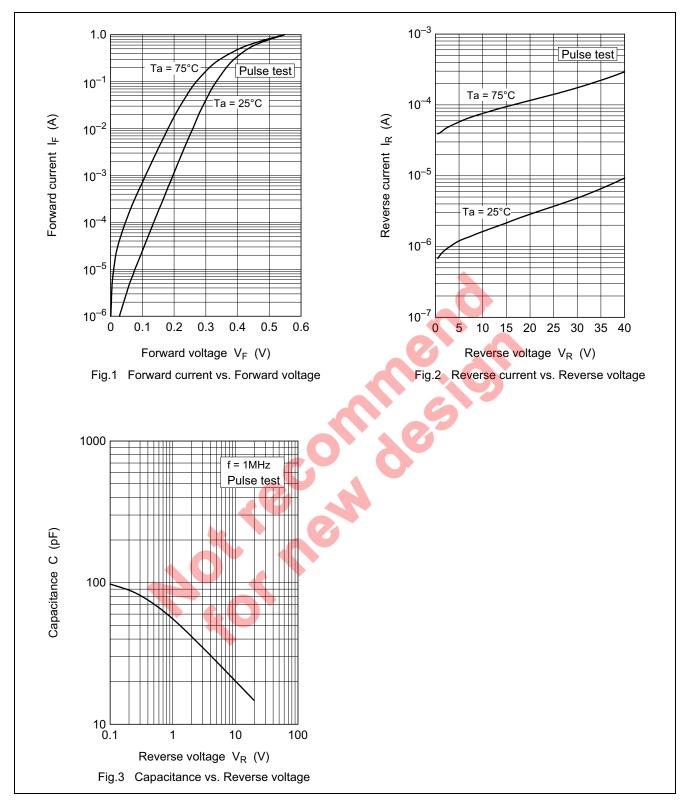


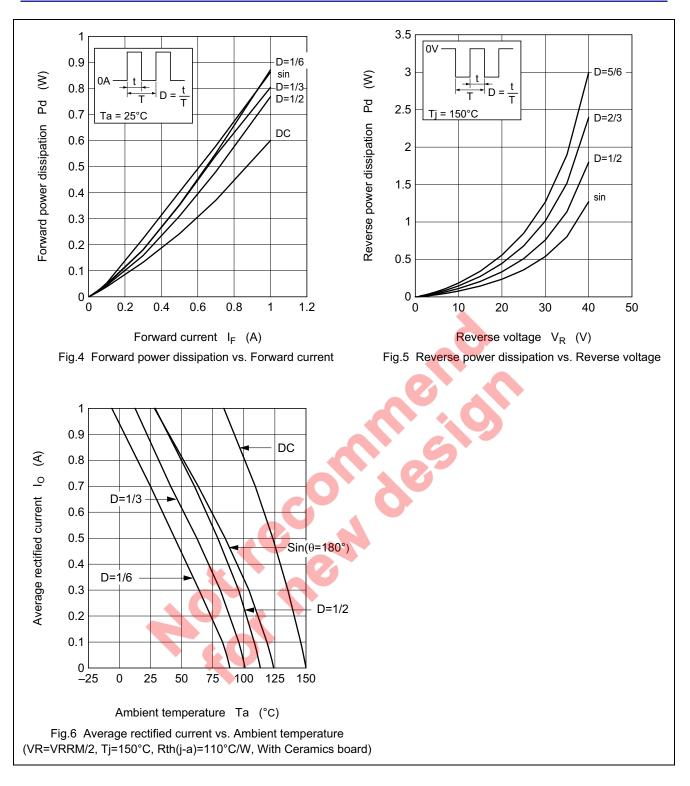
2. Glass epoxy board





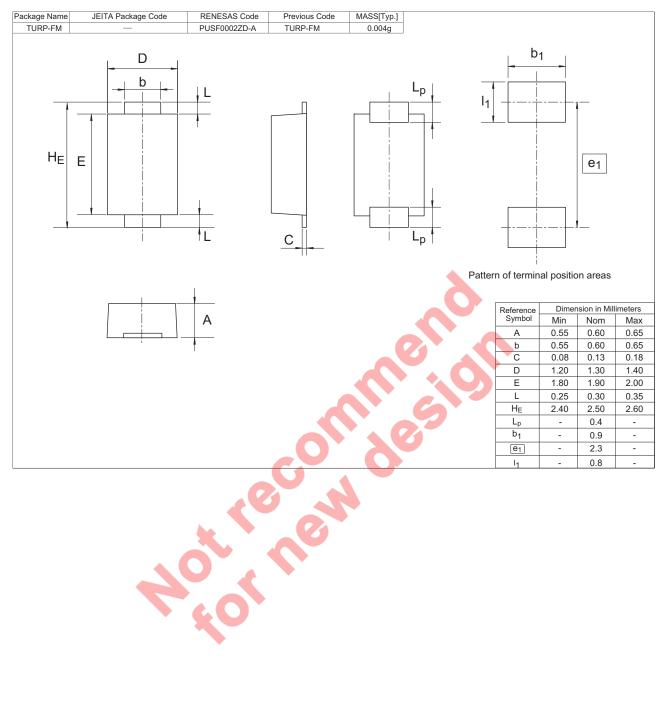
#### **Main Characteristics**







#### **Package Dimensions**





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