

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G0603-0400 Rev.4.00 Feb 06, 2007

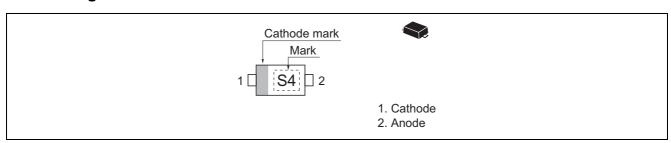
Features

- Low Power consumption (Low reverse leak current) and high speed (Low capacitance).
- Lineup of Environmental friendly Halogen free type (HSD226-N)
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Name | Package Code |
|---------------------|------------|--------------|--------------|
| HSD226 | S4 | SFP | PUSF0002ZB-A |
| HSD226-N | | | |
| (Halogen-free type) | | | |

Pin Arrangement



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

| Item | Symbol | Value | Unit |
|---|--------------------|-------------|------|
| Repetitive peak reverse voltage | V_{RRM} | 25 | V |
| Non-Repetitive peak forward surge current | I _{FSM} * | 200 | mA |
| Forward current | I _F | 50 | mA |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Note: 10 ms sine wave 1 pulse

Electrical Characteristics

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

| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|-----------------|-----------------|-----|-----|------|------|---------------------------------|
| Forward voltage | V _{F1} | | _ | 0.33 | V | $I_F = 1 \text{ mA}$ |
| | V_{F2} | _ | _ | 0.38 | V | $I_F = 5 \text{ mA}$ |
| Reverse current | I _R | _ | _ | 450 | nA | V _R = 20 V |
| Capacitance | С | _ | _ | 2.80 | pF | V _R = 1 V, f = 1 MHz |

Note: For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

N面询"Glbaracteri供应商

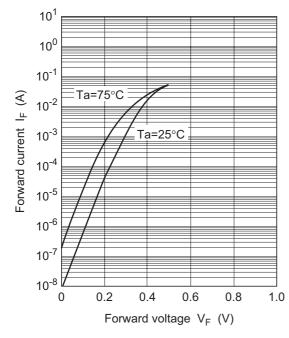
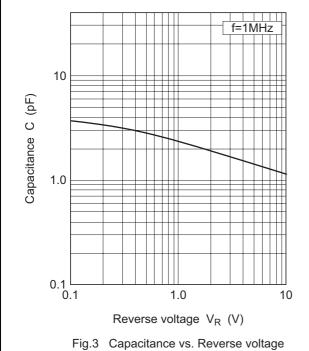


Fig.1 Forward current vs. Forward voltage



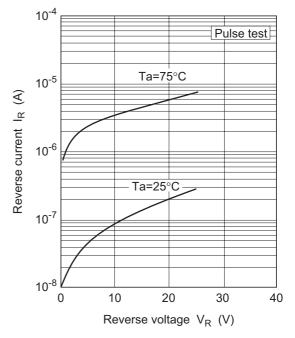
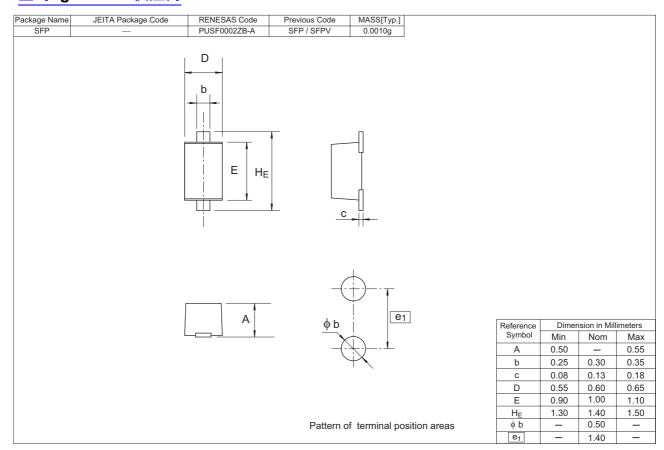


Fig.2 Reverse current vs. Reverse voltage

Package Danen 蛛页面新



Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

- Renesas Technology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan

 Notes:

 1. This document is provided for reference purposes only so that Renesas customers may select the appropriate Renesas products for their use. Renesas neither makes warranties or representations with respect to the accuracy or completeness of the information in this document nor grants any license to any intellectual property rights or any other rights of Renesas or shy third party with respect to the information in this document.

 2. Renesas shall have no liability for damages or infringement of any intellectual property or other rights arising out of the use of any information in this document, but not limited to, product data, diagrams, algorithms, and application circuit examples.

 3. You should not use the products or the technology described in this document for the purpose of military applications such as the development of weapons of mass and regulations, and procedures required by such laws and regulations and procedures required by such laws and regulations, and procedures required by such laws and regulations. All procedures required by such laws and regulations and procedures required by such laws and regulations and procedures required by such laws and regulations. All procedures required by such laws and regulations and procedures required by such laws and regulations, and procedures required by such laws and regulations, and procedures are such as a result of errors or omissions in the information with a Renesas sales office of the date of



RENESAS SALES OFFICES

http://www.renesas.com

Refer to "http://www.renesas.com/en/network" for the latest and detailed information.

Renesas Technology America, Inc. 450 Holger Way, San Jose, CA 95134-1368, U.S.A Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited
Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
Tel: <44> (1628) 585-100, Fax: <44> (1628) 585-900

Renesas Technology (Shanghai) Co., Ltd. Unit 204, 205, AZIACenter, No.1233 Lujiazui Ring Rd, Pudong District, Shanghai, China 200120 Tel: <86> (21) 5877-1818, Fax: <86> (21) 6887-7898

Renesas Technology Hong Kong Ltd.
7th Floor, North Tower, World Finance Centre, Harbour City, 1 Canton Road, Tsimshatsui, Kowloon, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2730-6071

Renesas Technology Taiwan Co., Ltd. 10th Floor, No.99, Fushing North Road, Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology Singapore Pte. Ltd. 1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd. Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea Tel: <82> (2) 796-3115, Fax: <82> (2) 796-2145

Renesas Technology Malaysia Sdn. Bhd
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia Tel: <603> 7955-9390, Fax: <603> 7955-9510