

HVC132

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0421-0300
(Previous: ADE-208-429B)
Rev.3.00
Oct 29, 2004

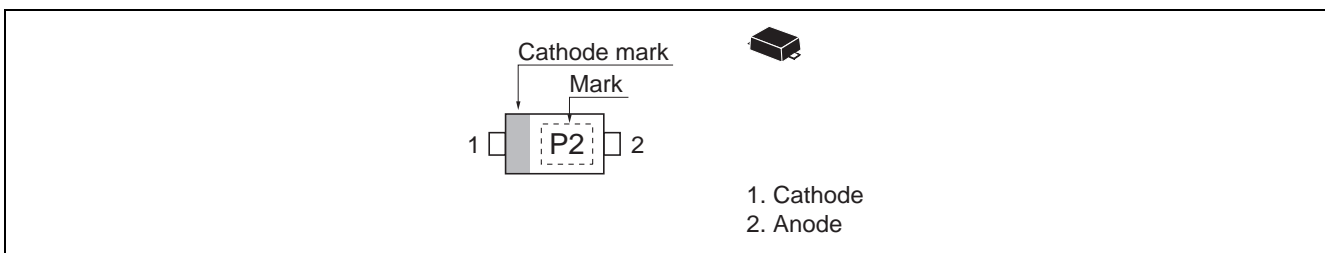
Features

- Low capacitance. ($C = 0.5 \text{ pF max}$)
- Low forward resistance. ($r_f = 2.0 \Omega \text{ max}$)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

| Type No. | Laser Mark | Package Code |
|----------|------------|--------------|
| HVC132 | P2 | UFP |

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

| Item | Symbol | Value | Unit |
|----------------------|-----------|-------------|------|
| Peak reverse voltage | V_{RM} | 65 | V |
| Reverse voltage | V_R | 60 | V |
| Forward current | I_F | 100 | mA |
| Power dissipation | P_d | 150 | mW |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -55 to +125 | °C |

Electrical Characteristics

(Ta = 25°C)

| Item | Symbol | Min | Typ | Max | Unit | Test Condition |
|--------------------|--------|-----|-----|-----|----------|------------------------------|
| Reverse current | I_R | — | — | 0.1 | μ A | $V_R = 60$ V |
| Forward voltage | V_F | — | — | 1.0 | V | $I_F = 10$ mA |
| Capacitance | C | — | — | 0.8 | pF | $V_R = 1$ V, $f = 1$ MHz |
| Forward resistance | r_f | — | — | 1.0 | Ω | $I_F = 10$ mA, $f = 100$ MHz |

Main Characteristic

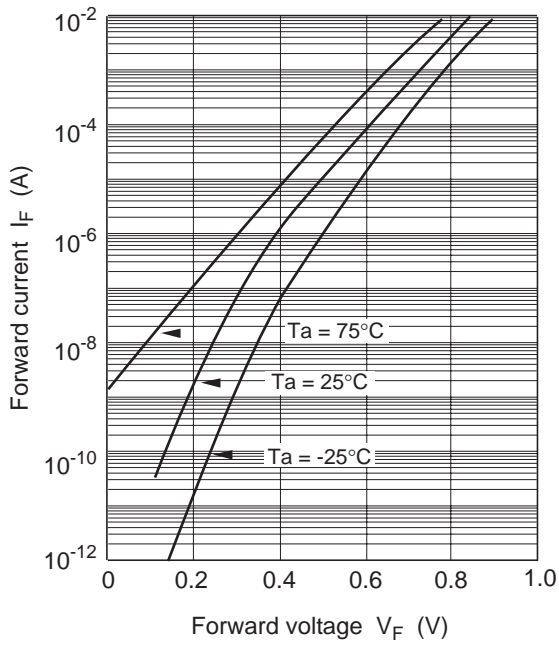


Fig.1 Forward current vs. Forward voltage

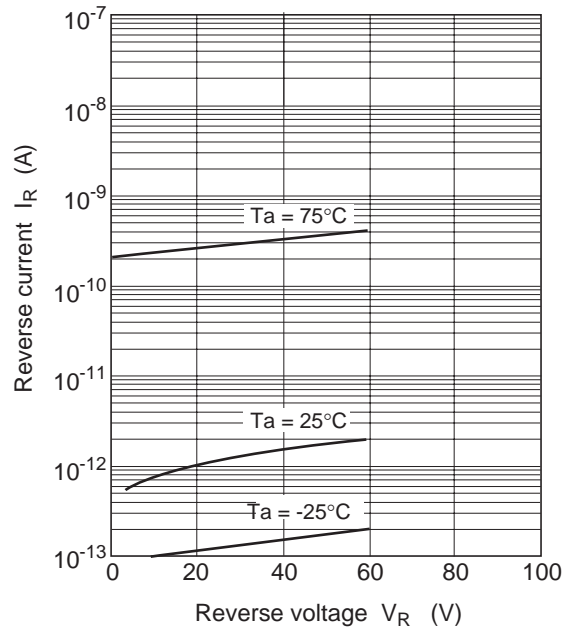


Fig.2 Reverse current vs. Reverse voltage

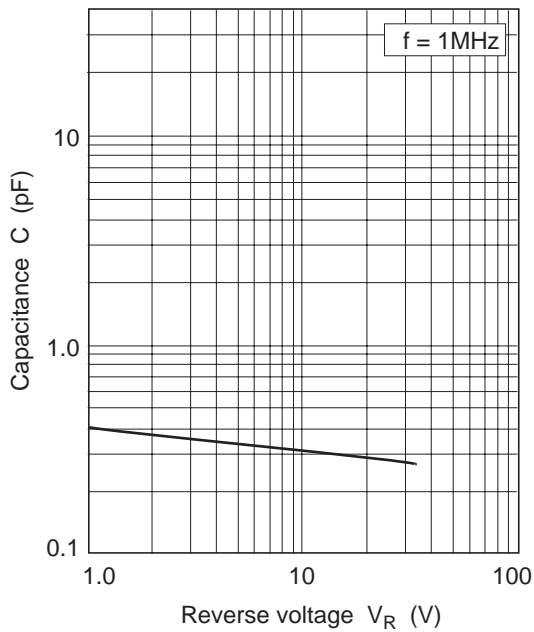


Fig.3 Capacitance vs. Reverse voltage

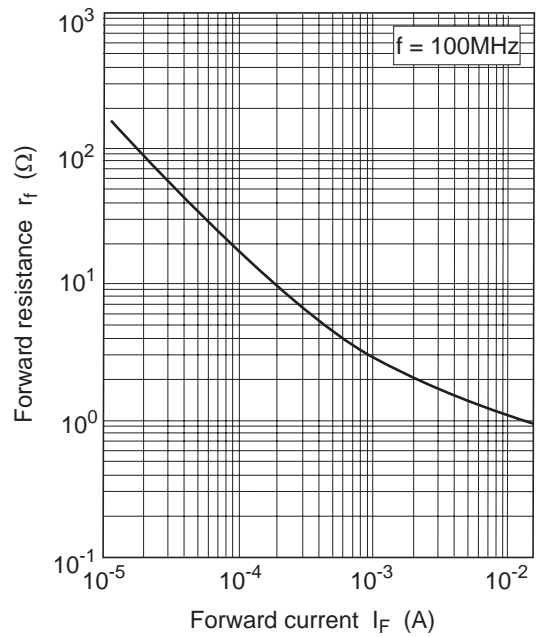
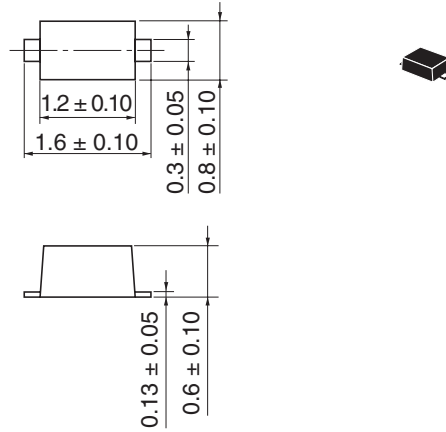


Fig.4 Forward resistance vs. Forward current

Package Dimensions

As of January, 2003
Unit: mm

| | |
|------------------------|----------|
| Package Code | UFP |
| JEDEC | — |
| JEITA | Conforms |
| Mass (reference value) | 0.0016 g |

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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 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 (Shanghai) Co., Ltd.

Unit2607 Ruijing Building, No.205 Maoming Road (S), Shanghai 200020, China
Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd.

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