Old Company Name in Catalogs and Other Documents

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April 1st, 2010 Renesas Electronics Corporation

Issued by: Renesas Electronics Corporation (http://www.renesas.com)

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HVC133A

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0170-0100Z Rev.1.00 Jan.21.2004

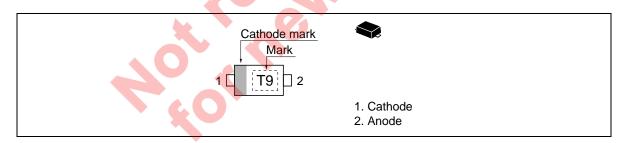
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance.(C1 = 1.0 pF max)
- Low forward resistance. (rf = $0.7 \Omega \text{ max}$)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC133A	T9	UFP

Pin Arrangement



Absolute Maximum Ratings

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

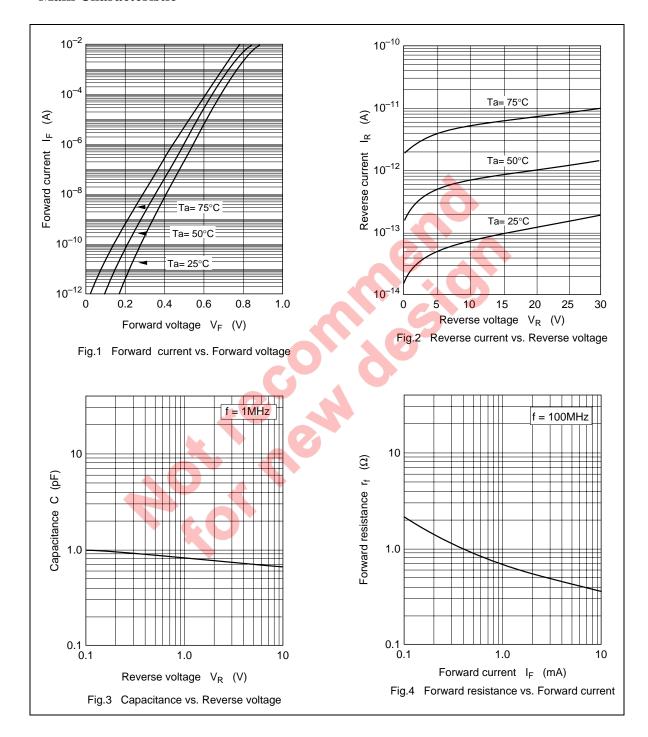
Item	Symbol	Value	Unit
Reverse voltage	V_R	30	V
Power dissipation	Pd	150	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

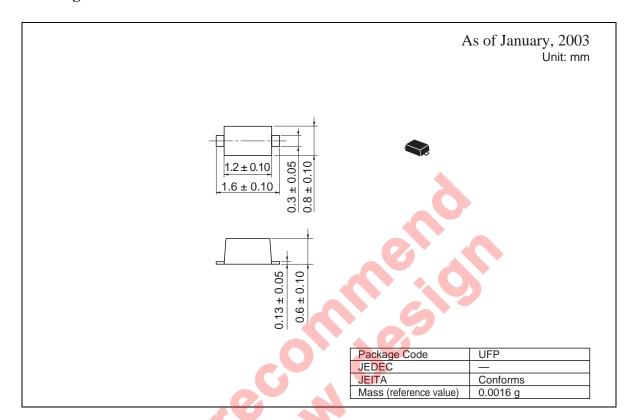
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit Test Condition
Reverse voltage	V_R	30	_	_	V I _R = 1 μA
Reverse current	I _R	_	_	100	nA V _R = 25 V
Forward voltage	V _F	_	_	0.85	V I _F = 2 mA
Capacitance	C ₁	_	_	1.00	pF V _R = 1 V, f = 1 MHz
	C ₆	_	70	0.90	$V_R = 6 \text{ V}, f = 1 \text{ MHz}$
Forward resistance	r _f	_	0.55	0.70	Ω I _F = 2 mA, f = 100 MHz

Main Characteristic



Package Dimensions



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Renesas Technology Europe Limited.

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Renesas Technology (Shanghai) Co., Ltd. 26/F., Ruijin 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

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