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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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HVC396C

Variable Capacitance Diode for VCO



ADE-208-1560 (Z)

Rev.0 Jan. 2003

Features

- High capacitance ratio. (n = 2.30 min)
- Good linearity of C-V curve.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVC396C	F9	UFP

Pin Arrangement

Cathode mark Mark 1 F9 2	
	1. Cathode
	2. Anode

HVC396C

Absolute Maximum Ratings

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

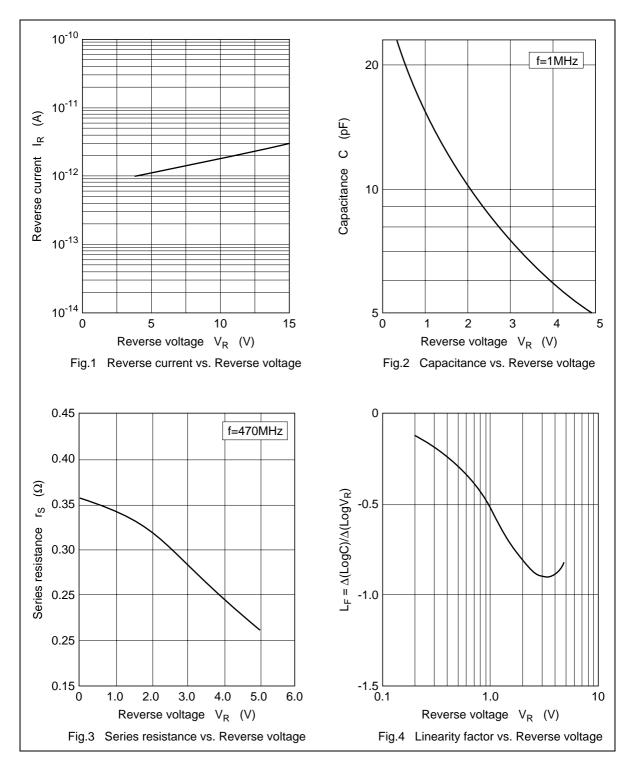
Item	Symbol	Value	Unit
Reverse voltage	V _R	10	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

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

ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	$V_{R} = 10 V$
	I _{R2}	_	_	50		$V_{R} = 10 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₁	14.5	_	17.5	pF	$V_{R} = 1 V, f = 1 MHz$
	C ₄	5.20	_	6.5		$V_{R} = 4 \text{ V}, \text{ f} = 1 \text{ MHz}$
Capacitance ratio	n	2.30	_	_	_	C ₁ /C ₄
Series resistance	r _s	_		0.4	Ω	$V_{_{R}} = 1 \text{ V}, \text{ f} = 470 \text{ MHz}$

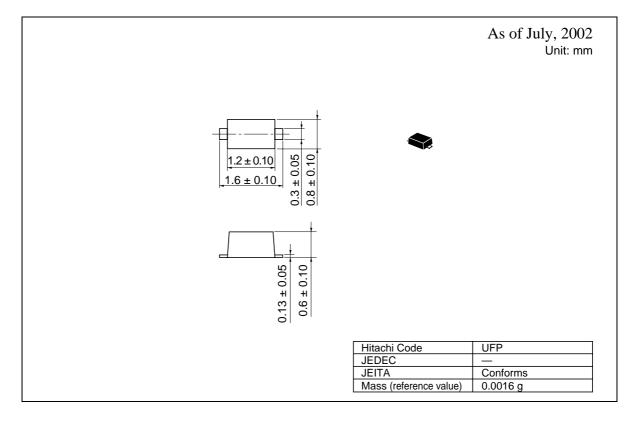
Main Characteristic





HVC396C

Package Dimensions





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Sales Offices

HITACHI

Hitachi, Ltd.

Semiconductor & Integrated Circuits Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: (03) 3270-2111 Fax: (03) 3270-5109

URL http://www.hitachisemiconductor.com/

For further information write to:

Tel: <1> (408) 433-1990	Hitachi Europe Ltd. Electronic Components Group Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 778322	Hitachi Asia Ltd. Hitachi Tower 16 Collyer Quay #20-00 Singapore 049318 Tel : <65>-6538-6533/6538-8577 Fax : <65>-6538-6933/6538-3877 URL : http://semiconductor.hitachi.com.sg	Fax : <852>-2730-0281
	Hitachi Europe GmbH Electronic Components Group Dornacher Str 3 D-85622 Feldkirchen Postfach 201, D-85619 Feldkirchen Germany Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00	Hitachi Asia Ltd. (Taipei Branch Office) 4/F, No. 167, Tun Hwa North Road Hung-Kuo Building Taipei (105), Taiwan Tel : <886>-(2)-2718-3160 Fax : <886>-(2)-2718-8180 Telex : 23222 HAS-TP URL : http://semiconductor.hitachi.com.tw	URL : http://semiconductor.hitachi.com.hk

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