HVC386B

Variable Capacitance Diode for VCXO

HITACHI

ADE-208-829(Z)

Rev. 0 Nov. 1999

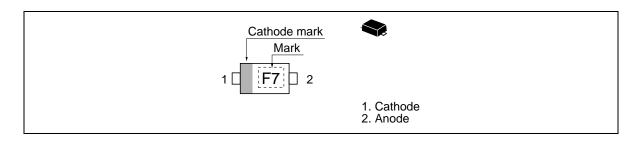
Features

- High capacitance ratio. (n =1.80 min)
- Low series resistance. (rs = 0.85Ω max)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC386B	F7	UFP

Outline





HVC386B

Absolute Maximum Ratings

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

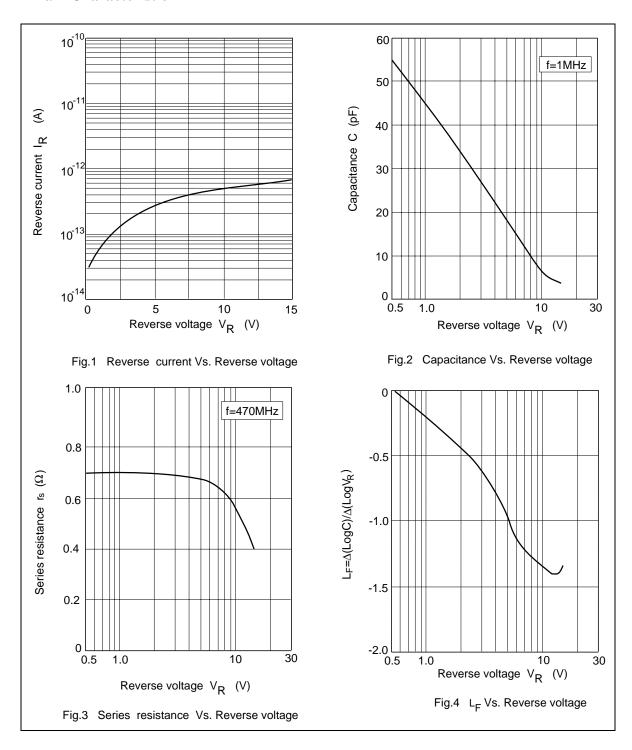
Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

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

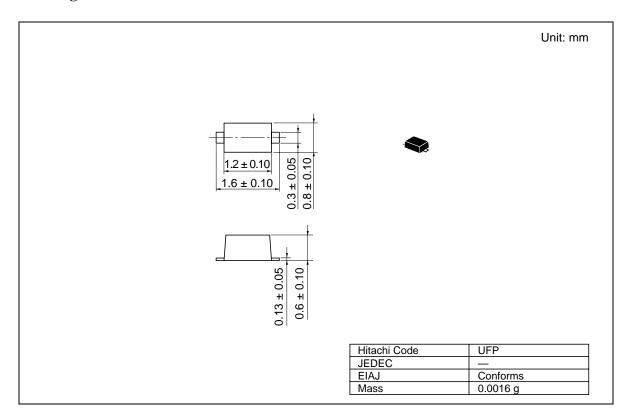
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 15V
	I _{R2}	_	_	100	_	V _R = 15V, Ta = 60°C
Capacitance	C ₁	43. 0	_	49. 0	pF	$V_R = 1V, f = 1 MHz$
	C ₄	18.5	_	25. 5	_	$V_R = 4V, f = 1 MHz$
Capacitance ratio	n	1.80	_	_	_	C ₁ / C ₄
Series resistance	r _s	_	_	0.85	Ω	V _R = 5V, f = 470 MHz

Main Characteristic



HVC386B

Package Dimensions



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Sales Offices

IITACHI

Hitachi. Ltd.

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

Hitachi Europe Ltd.

URL

NorthAmerica http://semiconductor.hitachi.com/ Europe http://www.hitachi-eu.com/hel/ecg Asia http://sicapac.hitachi-asia.com http://www.hitachi.co.jp/Sicd/indx.htm Japan

For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive San Jose,CA 95134 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223

Electronic Components Group Whitebrook Park Lower Cookham Road Maidenhead Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 585200

Hitachi Europe GmbH Electronic Components Group Dornacher Straße 3 D-85622 Feldkirchen, Munich Germany

Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00

Hitachi Asia Ltd. Hitachi Tower 16 Collyer Quay #20-00 Singapore 049318 Tel: <65>-538-6533/538-8577 Fax: <65>-538-6933/538-3877 URL: http://www.hitachi.com.sg

Hitachi Asia Ltd. (Taipei Branch Office) 4/F, No. 167, Tun Hwa North Road Hung-Kuo Building Taipei (105), Taiwan Tel: <886>-(2)-2718-3666

Fax: <886>-(2)-2718-8180 Telex: 23222 HAS-TP URL: http://www.hitachi.com.tw

Hitachi Asia (Hong Kong) Ltd. Group III (Electronic Components) 7/F., North Tower World Finance Centre, Harbour City, Canton Road Tsim Sha Tsui, Kowloon Hong Kong

Tel: <852>-(2)-735-9218 Fax: <852>-(2)-730-0281

URL: http://semiconductor.hitachi.com.hk

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