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



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HVD396C

Variable Capacitance Diode for VCO



ADE-208-1511 (Z)

Rev.0 Jan. 2003

Features

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

Ordering Information

Туре No.	Laser Mark	Package Code
HVD396C	U	SFP

Pin Arrangement

	Cathode mark	
1 🗖		1. Cathode 2. Anode

HVD396C

Absolute Maximum Ratings

(Ta = 25°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°C)

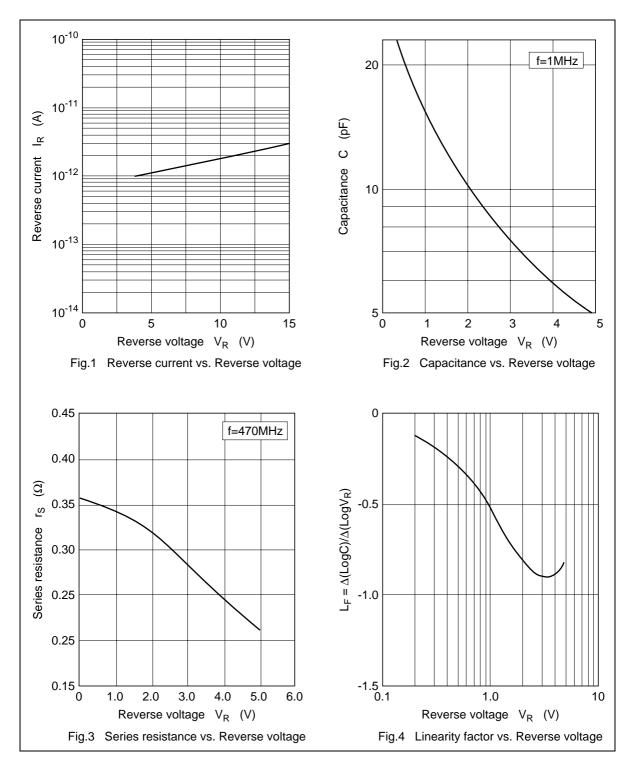
ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _{R1}	—	—	10	nA	$V_{R} = 10 \text{ V}$
	I _{R2}		_	50		$V_{R} = 10 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₁	14.5	_	17.5	pF	V _R = 1 V, f = 1 MHz
	C ₄	5.20	_	6.5		$V_{R} = 4 \text{ V}, \text{ f} = 1 \text{ MHz}$
Capacitance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

Notes: 1. Please do not use the soldering iron due to avoid high stress to the EFP package.

2. The material of lead is exposed for cutting plane. Therefore, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



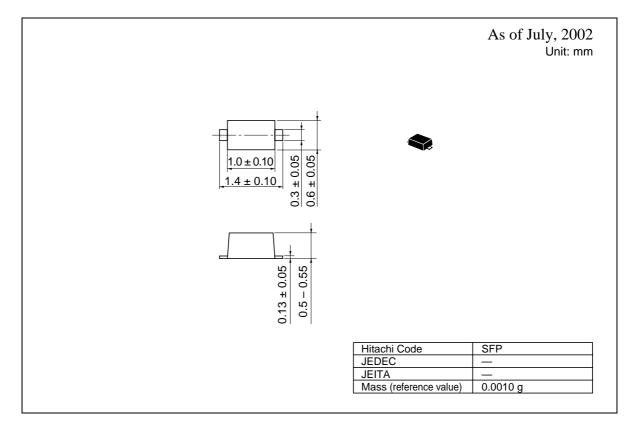
Main Characteristic





HVD396C

Package Dimensions





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