HVC368B

Variable Capacitance Diode for VCO

HITACHI

ADE-208-775 (Z)

Rev. 0 Feb. 1999

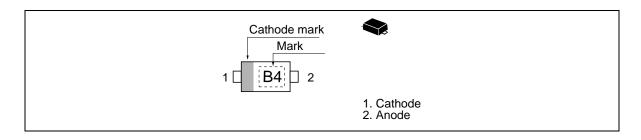
Features

- Low tolerance.
- Low series resistance. (rs=1.1 Ω max)
- Good C-V linearity.
- <u>U</u>ltra small <u>F</u>lat <u>P</u>ackage (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC368B	B4	UFP

Outline





HVC368B

Absolute Maximum Ratings

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

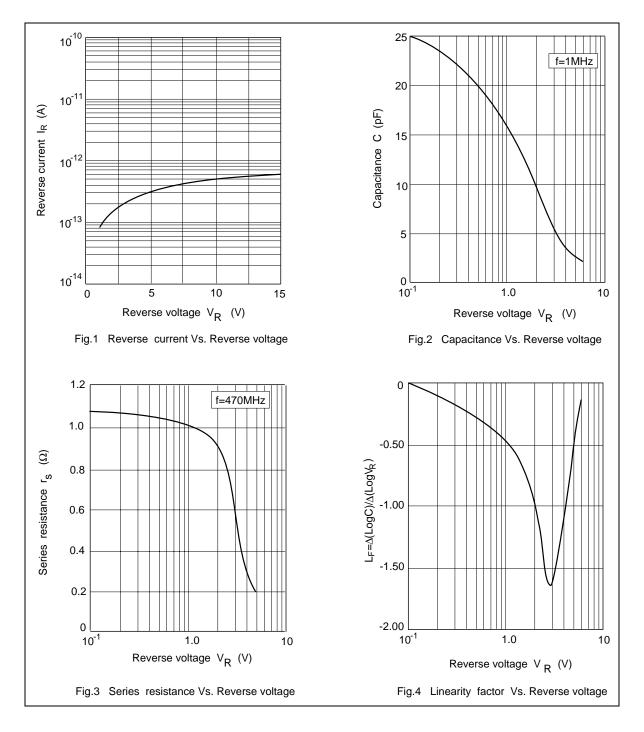
Item	Symbol	Value	Unit
Reverse voltage	V_{R}	10	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10V
	I _{R2}		_	100		V _R = 10V, Ta = 60 °C
Capacitance	C ₁	15.0	_	16.5	pF	V _R = 1V, f = 1 MHz
	C ₂	9.0	_	10.2		$V_R = 2V, f = 1 MHz$
	C ₃	5.0	_	6.0	_	$V_R = 3V$, $f = 1 MHz$
Capacitance ratio	n	2.2	_		_	C ₁ / C ₃
Series resistance	r _s		_	1.1	Ω	V _R = 2V, f = 470 MHz

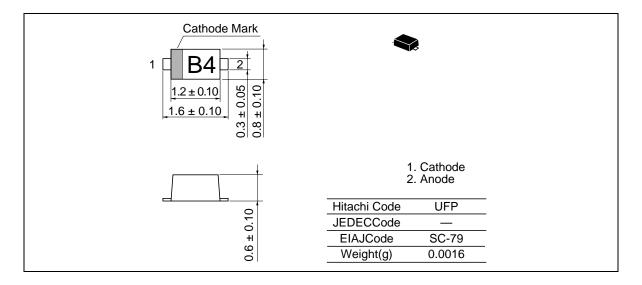
Main Characteristic



HVC368B

Package Dimensions

Unit: mm



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