

HVC368B

Variable Capacitance Diode for VCO

REJ03G0065-0100Z
(Previous: ADE-208-775)
Rev.1.00
Jul.24.2003

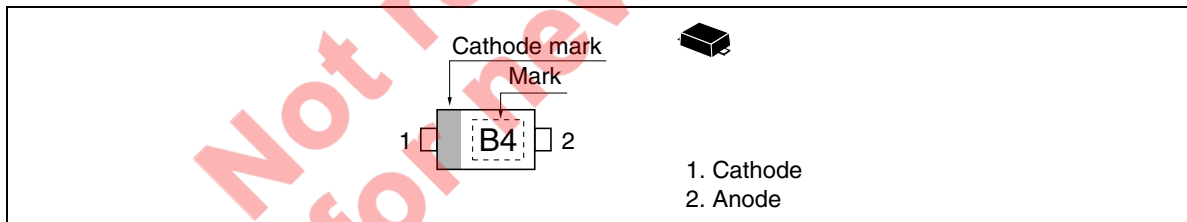
Features

- Narrow terminal Capacitance deviation.
- Low series resistance. ($r_s = 1.1 \Omega$ max)
- Good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC368B	B4	UFP

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

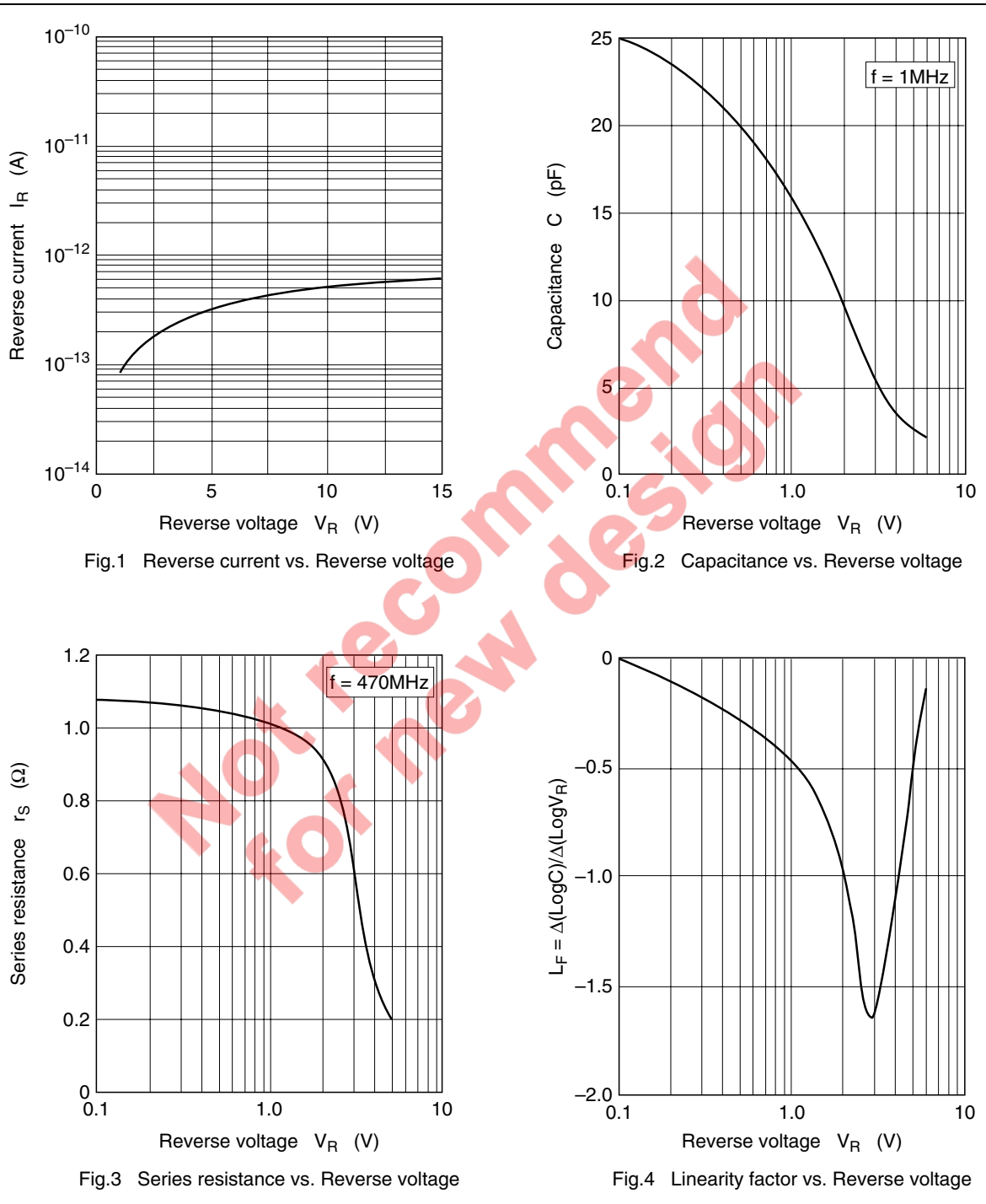
Item	Symbol	Value	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics

(Ta = 25°C)

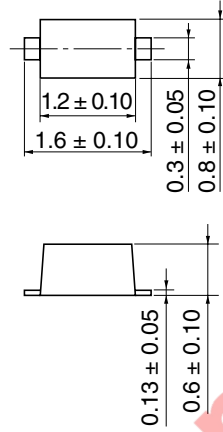
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 10\text{ V}$
	I_{R2}	—	—	100	nA	$V_R = 10\text{ V}, T_a = 60^\circ\text{C}$
Capacitance	C_1	15.0	—	16.5	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$
	C_2	9.0	—	10.2	pF	$V_R = 2\text{ V}, f = 1\text{ MHz}$
	C_3	5.0	—	6.0	pF	$V_R = 3\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	n	2.2	—	—	—	C_1 / C_3
Series resistance	r_s	—	—	1.1	Ω	$V_R = 2\text{ V}, f = 470\text{ MHz}$

Main Characteristic



Package Dimensions

As of January, 2003
Unit: mm



Package Code	UFP
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.0016 g

Not recommend
for new design

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April 1st, 2010
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Not recommended
for new design

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