

HVC358B

Variable Capacitance Diode for VCO

REJ03G0085-0100Z
(Previous: ADE-208-418)
Rev.1.00
Sep.17.2003

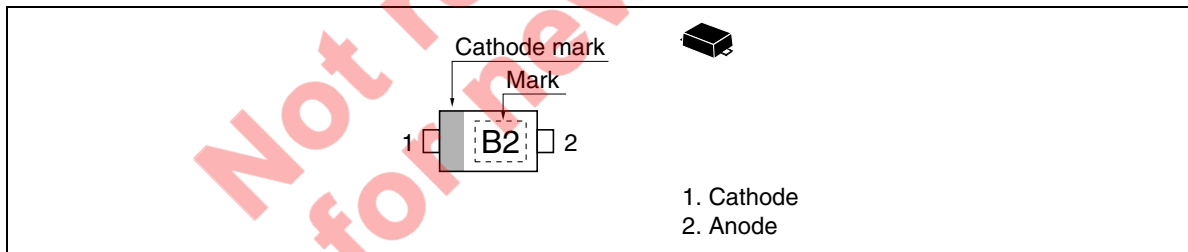
Features

- High capacitance ratio. ($n = 2.2$ min)
- Low series resistance. ($r_s = 0.4 \Omega$ max)
- Good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC358B	B2	UFP

Pin Arrangement



Absolute Maximum Ratings

($T_a = 25^\circ\text{C}$)

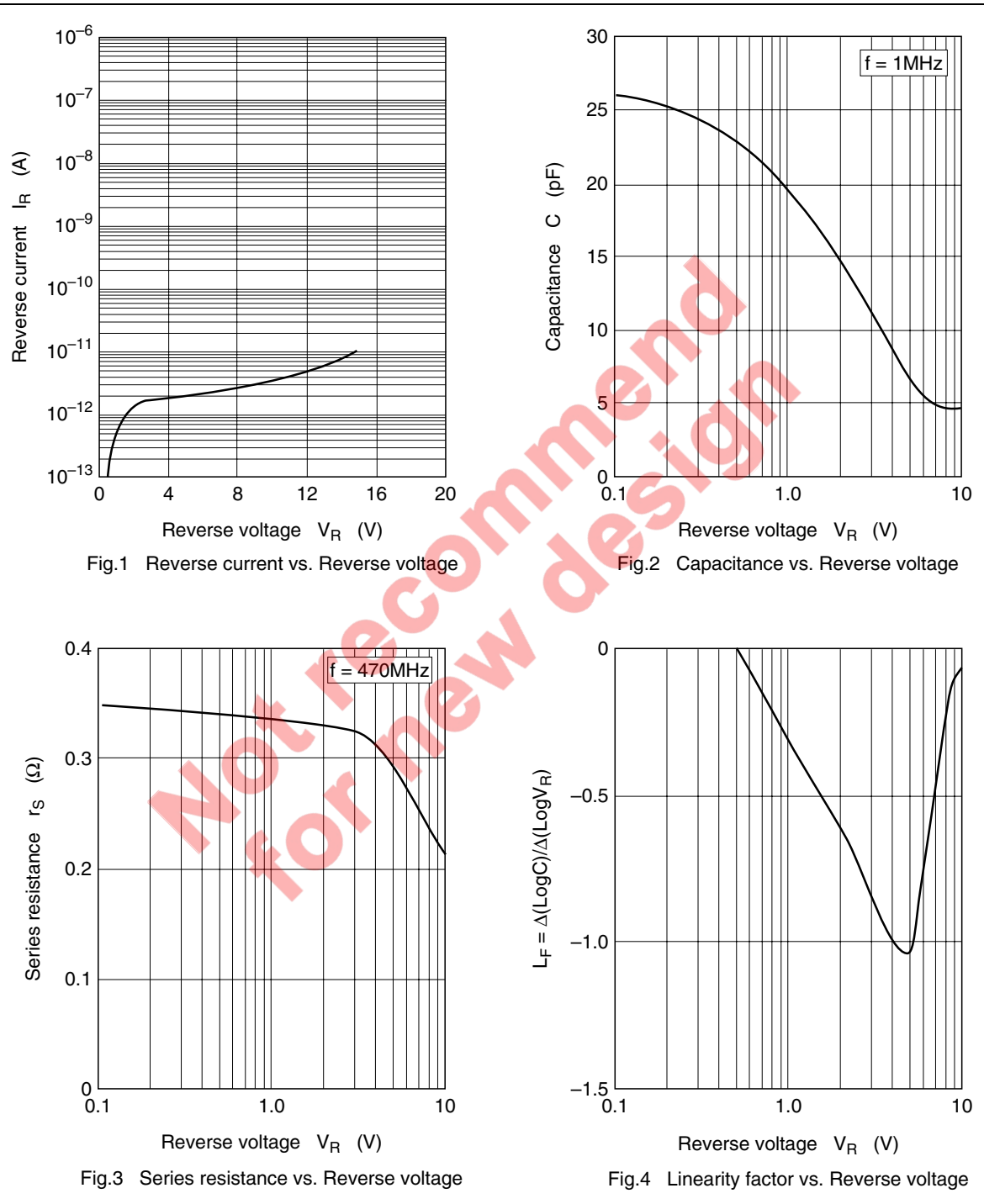
Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

Electrical Characteristics

($T_a = 25^\circ\text{C}$)

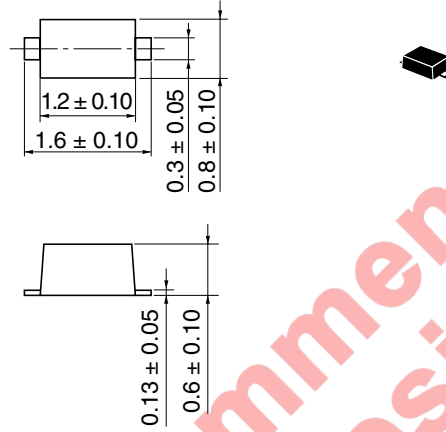
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	100		$V_R = 15\text{ V}$
Capacitance	C_1	19.5	—	21.0	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$
	C_4	8.0	—	9.3		$V_R = 4\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	n	2.2	—	—	—	C_1/C_4
Series resistance	r_s	—	—	0.4	Ω	$V_R = 1\text{ V}, f = 470\text{ MHz}$

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
Renesas Electronics Corporation

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Not recommended
for new design

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