

HVC359 Variable Capacitance Diode for VCO

REJ03G0489-0300 (Previous: ADE-208-419B) Rev.3.00 Jan 17, 2005

Features

- High capacitance ratio and good C-V linearity.
- To be usable at low voltage.
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code	
HVC359	S	UFP	

Pin Arrangement

	Cathode mark	
1 🗆	S 2	1. Cathode 2. Anode



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°

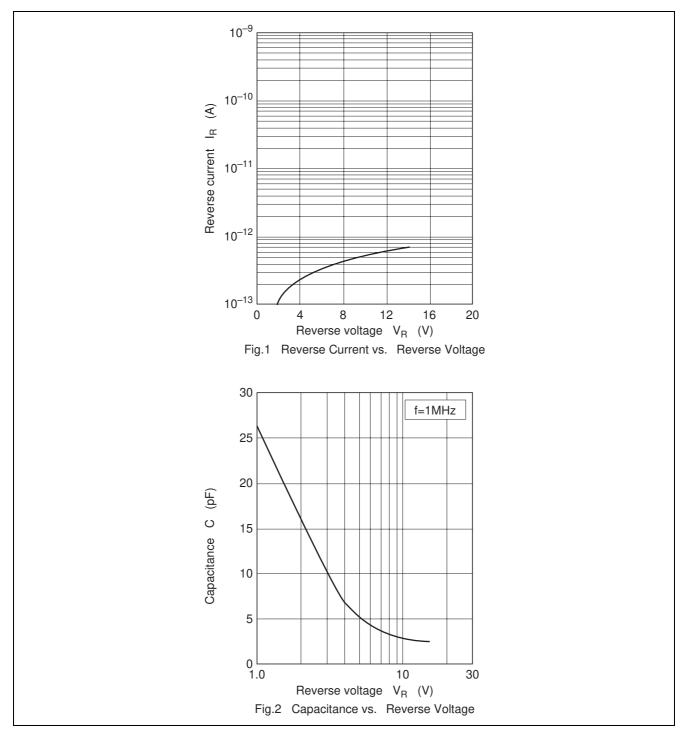
Electrical Characteristics

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100		V _R = 10 V, Ta = 60°C
Capacitance	C ₁	24.8	_	29.8	pF	V _R = 1 V, f = 1 MHz
	C ₄	6.0		8.30		V _R = 4 V, f = 1 MHz
Capacitance ratio	n	3.00	_	—	_	C ₁ /C ₄
Series resistance	rs	_		1.50	Ω	V _R = 4 V, f = 100 MHz
ESD-Capability *1	—	200			V	C = 200 pF, R = 0 Ω , Both forward
						and reverse direction 1 pulse.

Note: 1. Failure criterion ; $I_R \geq 20 \text{ nA}$ at V_R =10 V

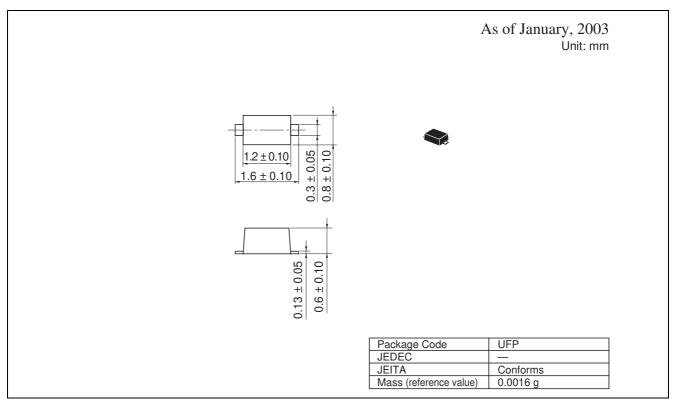


Main Characteristic





Package Dimensions





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April 1st, 2010 Renesas Electronics Corporation

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