

# HVC308A

## Variable Capacitance Diode for TV tuner

REJ03G0099-0200Z  
(Previous: ADE-208-411A)  
Rev.2.00  
Sep.23.2003

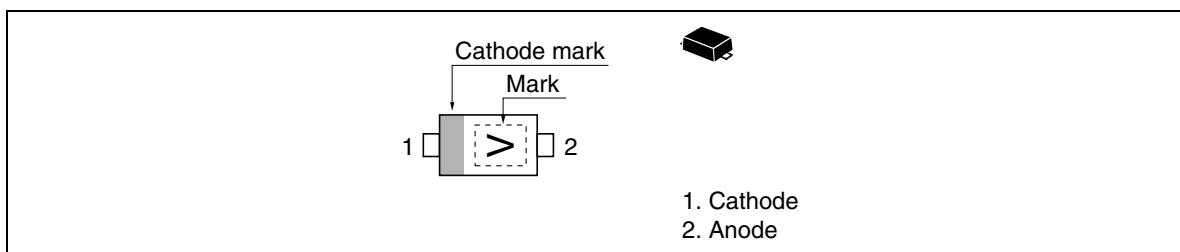
### Features

- Low series resistance. ( $r_s = 0.95 \Omega$  max)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Code
HVC308A	V	UFP

### Pin Arrangement



**Absolute Maximum Ratings**

(Ta = 25°C)

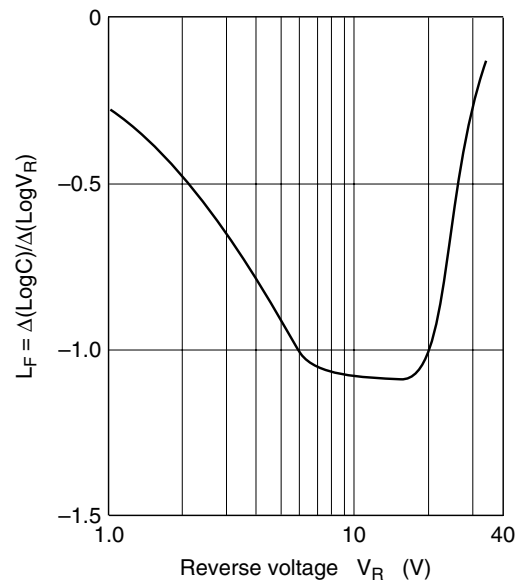
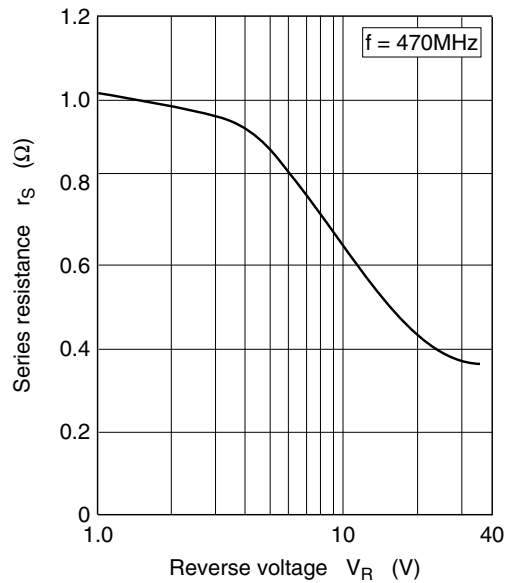
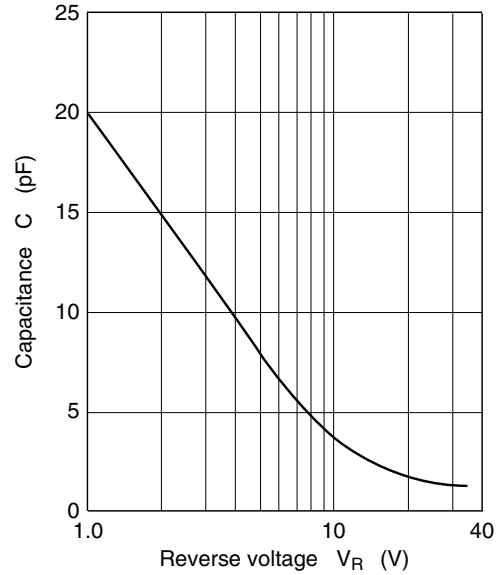
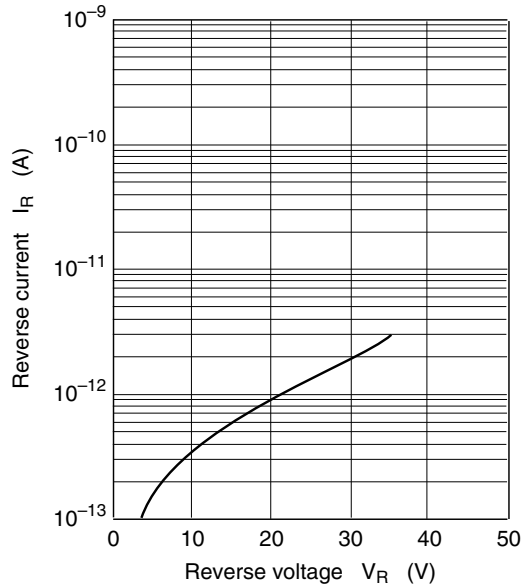
Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

**Electrical Characteristics**

(Ta = 25°C)

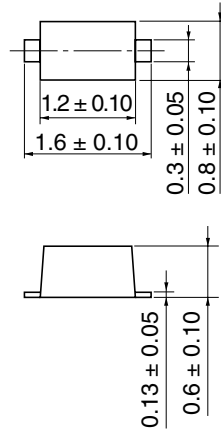
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	$I_{R1}$	—	—	10	nA	$V_R = 30\text{ V}$
	$I_{R2}$	—	—	100		$V_R = 30\text{ V}$ , Ta = 60°C
Capacitance	$C_2$	13.7	—	15.9	pF	$V_R = 2\text{ V}$ , f = 1 MHz
	$C_{20}$	1.65	—	2.06		$V_R = 20\text{ V}$ , f = 1 MHz
Capacitance ratio	n	7.12	—	—	—	$C_2/C_{20}$
Series resistance	$r_s$	—	—	0.95	$\Omega$	$V_R = 5\text{ V}$ , f = 470 MHz

## Main Characteristic



# Package Dimensions

As of January, 2003  
Unit: mm



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

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