

# HVC132

## Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0421-0300  
(Previous: ADE-208-429B)  
Rev.3.00  
Oct 29, 2004

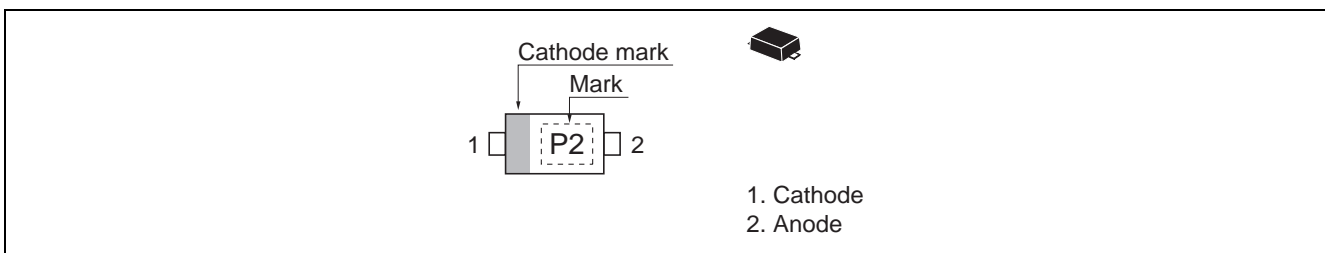
### Features

- Low capacitance. ( $C = 0.5 \text{ pF max}$ )
- Low forward resistance. ( $r_f = 2.0 \Omega \text{ max}$ )
- Ultra small Flat Package (UFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Code
HVC132	P2	UFP

### Pin Arrangement



## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Peak reverse voltage	$V_{RM}$	65	V
Reverse voltage	$V_R$	60	V
Forward current	$I_F$	100	mA
Power dissipation	$P_d$	150	mW
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	$I_R$	—	—	0.1	$\mu$ A	$V_R = 60$ V
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10$ mA
Capacitance	C	—	—	0.8	pF	$V_R = 1$ V, $f = 1$ MHz
Forward resistance	$r_f$	—	—	1.0	$\Omega$	$I_F = 10$ mA, $f = 100$ MHz

Main Characteristic

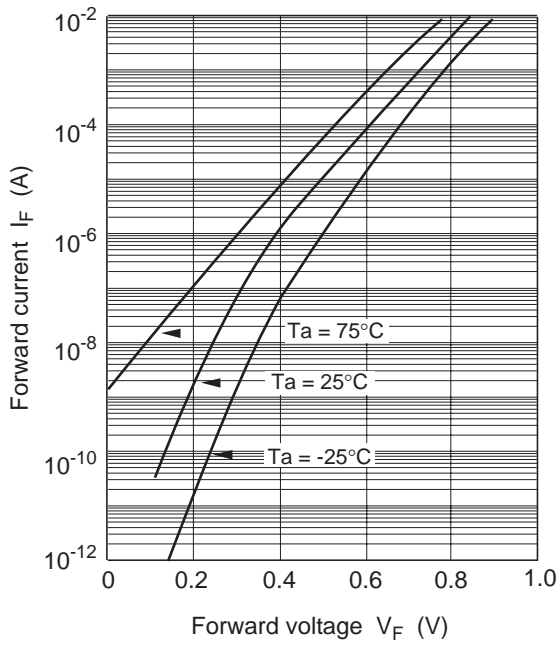


Fig.1 Forward current vs. Forward voltage

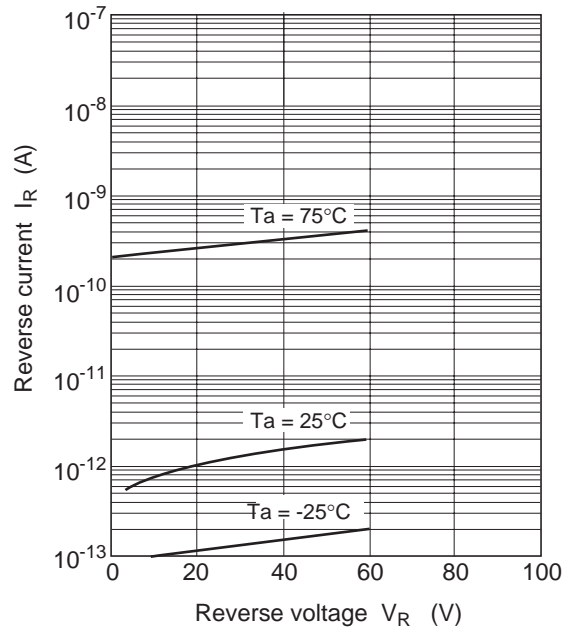


Fig.2 Reverse current vs. Reverse voltage

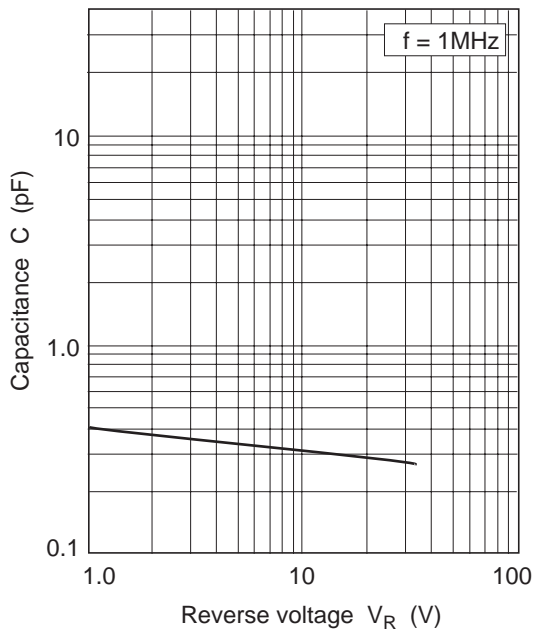


Fig.3 Capacitance vs. Reverse voltage

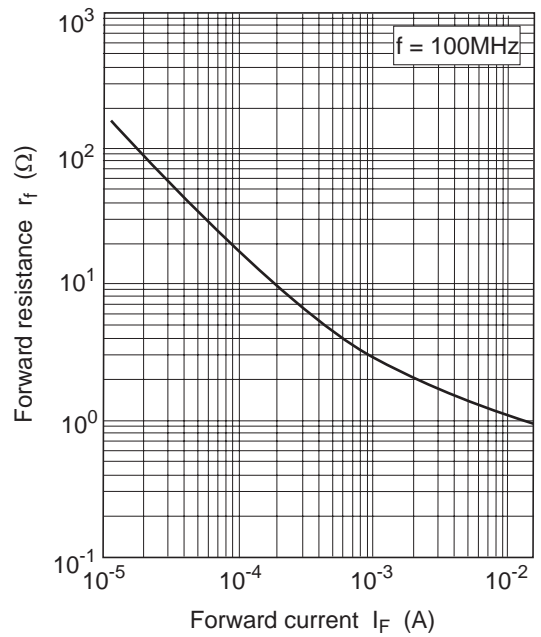
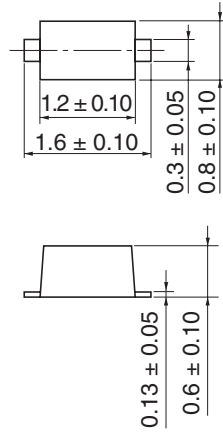


Fig.4 Forward resistance vs. Forward current

## Package Dimensions

As of January, 2003  
Unit: mm

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

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