

# HVC131

## Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0420-0300  
 (Previous: ADE-208-422B)  
 Rev.3.00  
 Oct 29, 2004

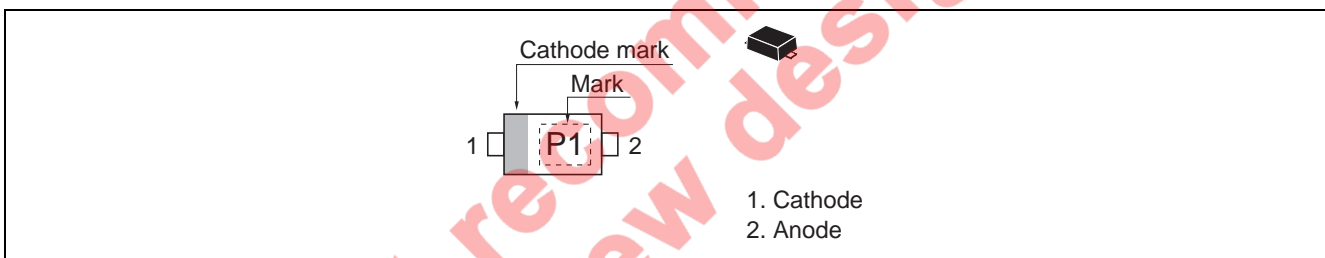
### Features

- Low capacitance. ( $C = 0.8 \text{ pF max}$ )
- Low forward resistance. ( $r_f = 1.0 \Omega \text{ max}$ )
- Ultra small Flat Package (UFP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Code
HVC131	P1	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

Not recommended  
for new design

Main Characteristic

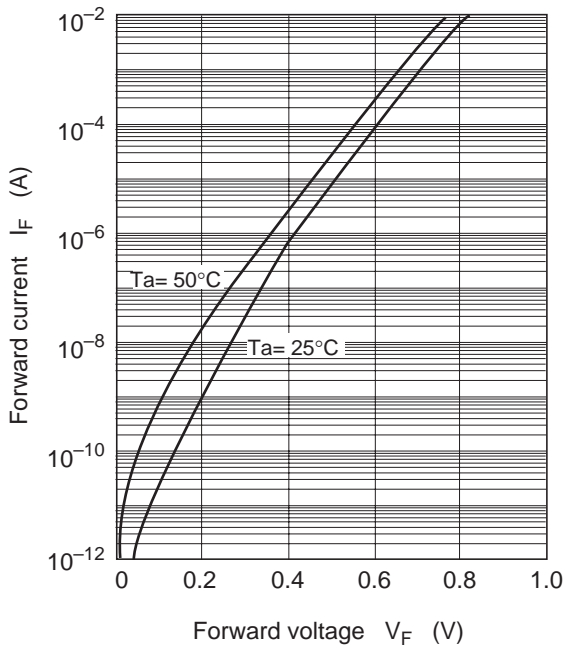


Fig.1 Forward current vs. Forward voltage

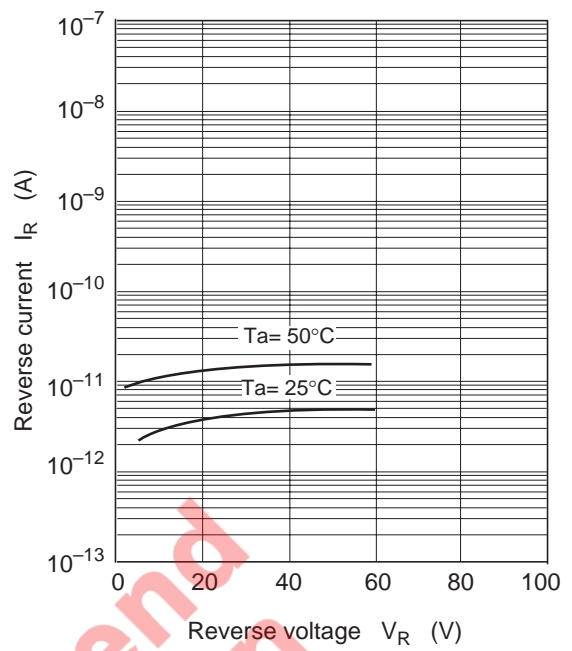


Fig.2 Reverse current vs. Reverse voltage

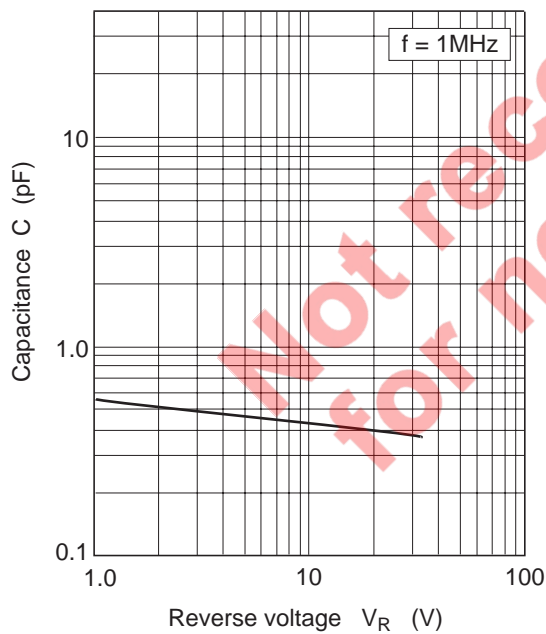


Fig.3 Capacitance vs. Reverse voltage

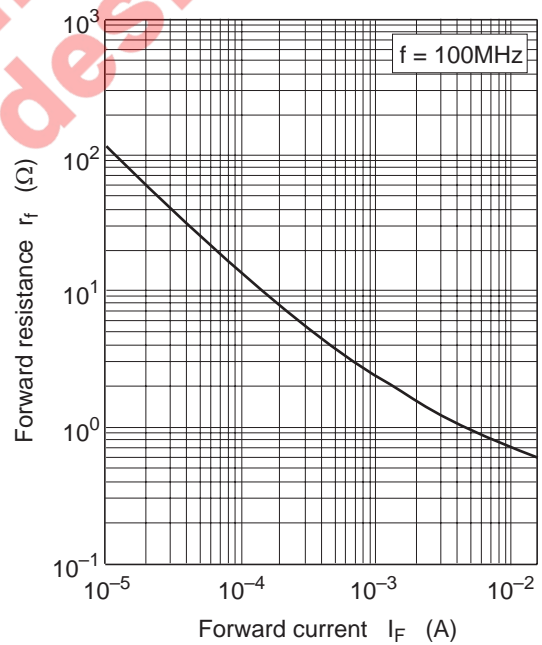
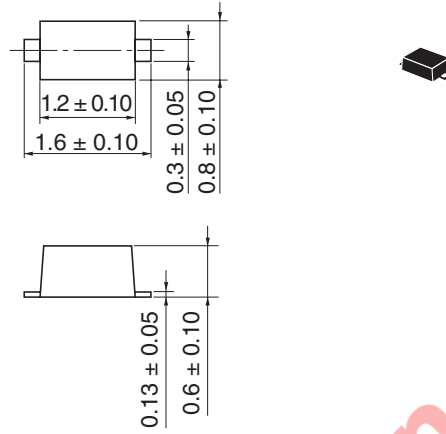


Fig.4 Forward resistance vs. Forward current

Package Dimensions

As of January, 2003  
Unit: mm



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

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