

# HVC131

## Silicon Epitaxial Planar Pin Diode for Antenna Switching

# HITACHI

 Rev. 0  
 Nov. 1995

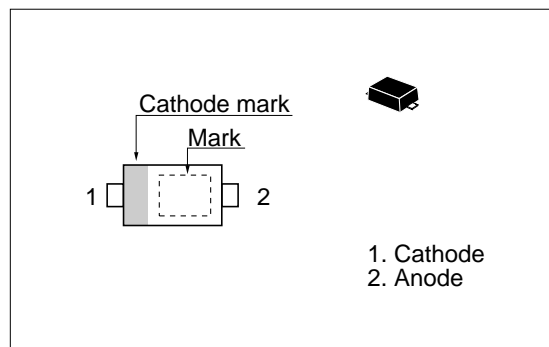
### Features

- 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

### Outline



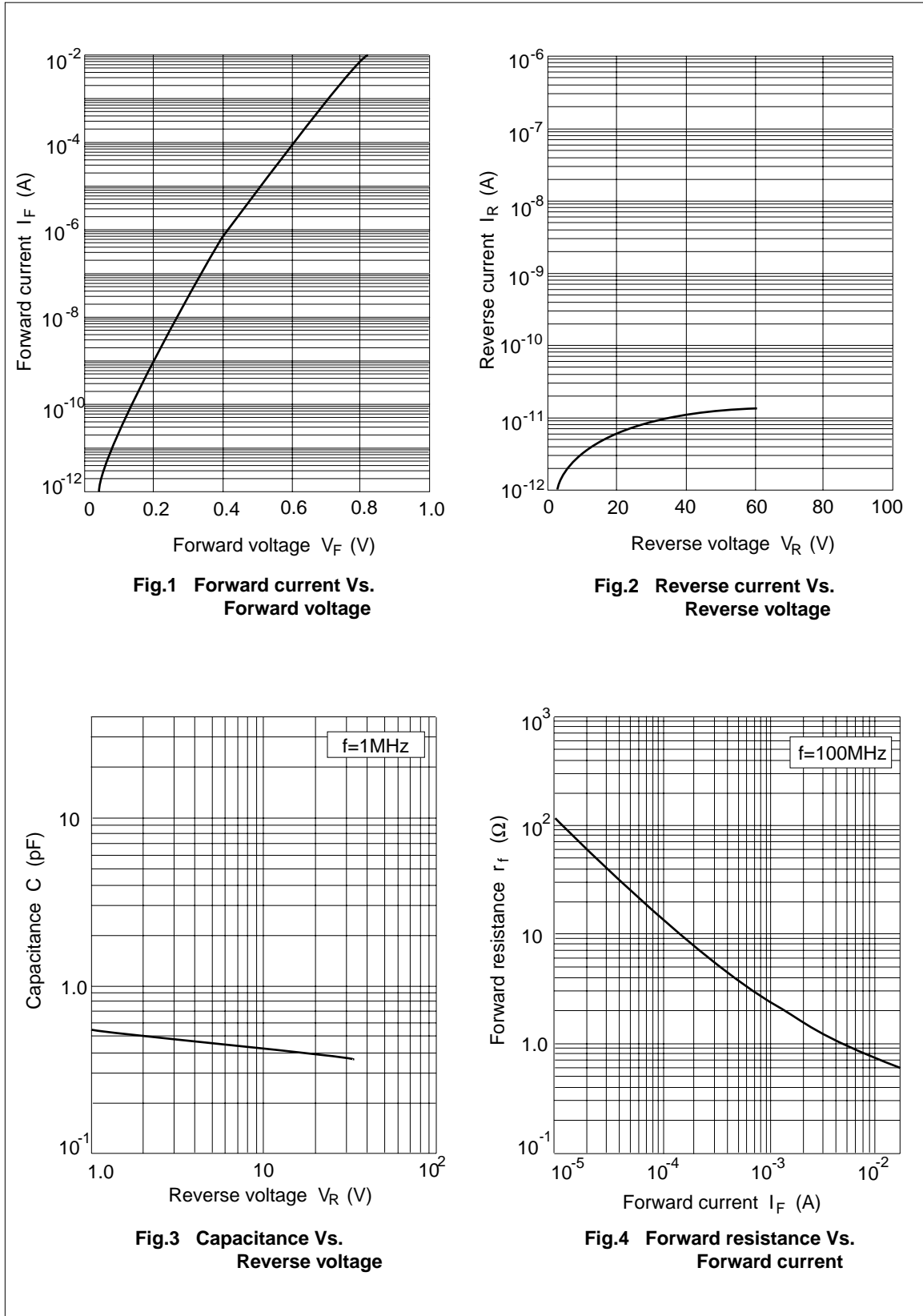
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Item	Symbol	Value	Unit
Peak reverse voltage	$V_{RM}$	65	V
Reverse voltage	$V_R$	60	V
Forward current	$I_F$	50	mA
Power dissipation	$P_d$	100	mW
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

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

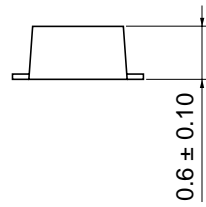
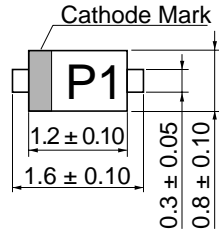
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10 \text{ mA}$
Reverse current	$I_R$	—	—	0.1	$\mu\text{A}$	$V_R = 60 \text{ V}$
Capacitance	$C$	—	—	0.8	pF	$V_R = 1 \text{ V}$ , $f = 1 \text{ MHz}$
Forward resistance	$r_f$	—	—	1.0	$\Omega$	$I_F = 10 \text{ mA}$ , $f = 100 \text{ MHz}$

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### Package Dimensions

Unit: mm



- 1 Cathode
- 2 Anode

HITACHI Code	UFP
JEDEC Code	—
EIAJ Code	SC-79
Weight (g)	0.0016