
HVC133

Silicon Epitaxial Planar Pin Diode for High Frequency Switching

HITACHI

ADE-208-423B(Z)

Rev. 2
Feb. 2000

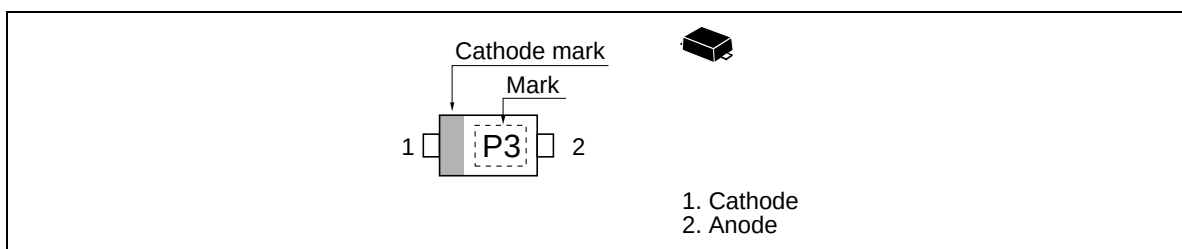
Features

- Low capacitance.(C1=1.0pF max)
- Low forward resistance. ($r_f=0.7\Omega$ max)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC133	P3	UFP

Outline



HVC133

Absolute Maximum Ratings

(T_a = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V _R	30	V
Power dissipation	P _d	150	mW
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Electrical Characteristics

(T_a = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V _R	30	—	—	V	I _R = 1μA
Reverse current	I _R	—	—	100	nA	V _R = 25V
Forward voltage	V _F	—	—	0.85	V	I _F = 2 mA
Capacitance	C ₁	—	—	1.0	pF	V _R = 1V, f = 1 MHz
	C ₆	—	—	0.9		V _R = 6V, f = 1 MHz
Forward resistance	r _f	—	0.55	0.7	Ω	I _F = 2mA, f = 100 MHz

Main Characteristic

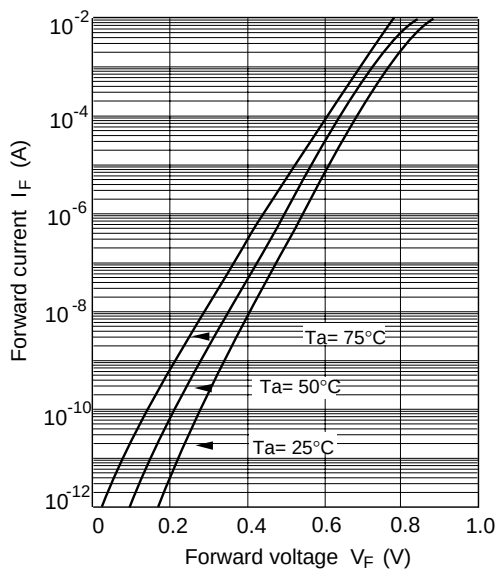


Fig.1 Forward current Vs. Forward voltage

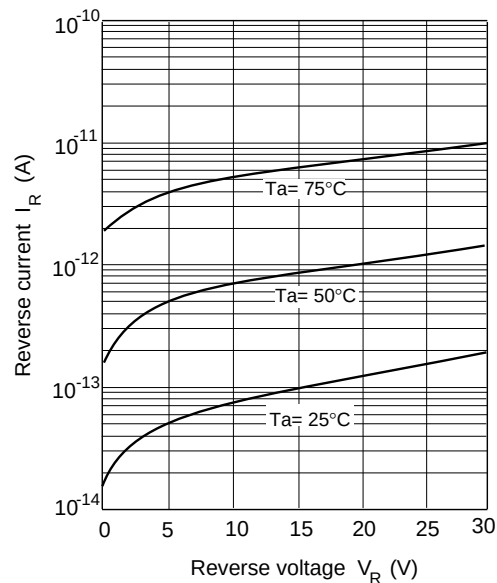


Fig.2 Reverse current Vs. Reverse voltage

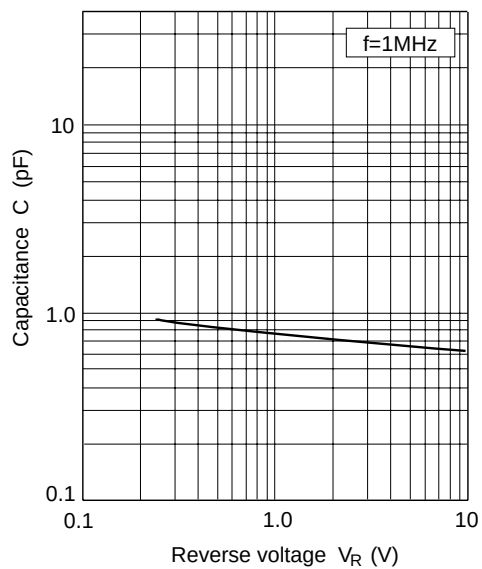


Fig.3 Capacitance Vs. Reverse voltage

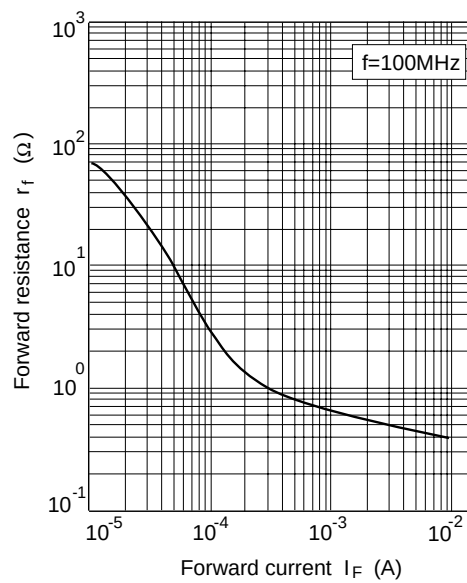
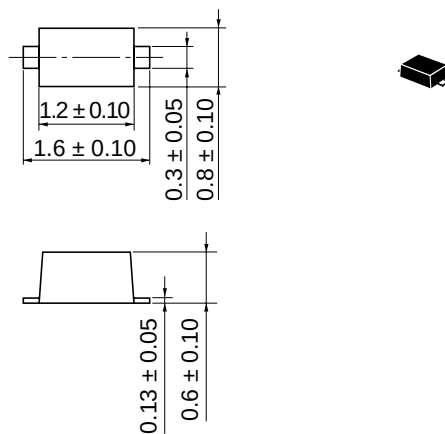


Fig.4 Forward resistance Vs. Forward current

HVC133

Package Dimensions

Unit: mm



Hitachi Code	UFP
JEDEC	—
EIAJ	Conforms
Mass	0.0016 g

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