HVU133

Silicon Epitaxial Planar Pin Diode for High Frequency Switching

HITACHI

ADE-208-377B(Z)
Rev 2
Feb. 2000

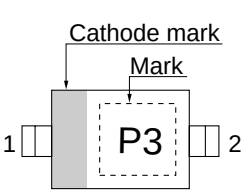
Features

- Low capacitance.(C1=1.0pF max)
- Low forward resistance. (rf=0.7Ω max)
- Ultra small Resin Package (URP) is suitablefor high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HVU133	P3	URP

Outline





1. Cathode
2. Anode

Hitachi semiconductor

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	30	V
Power dissipation	P_d	150	mW
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 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

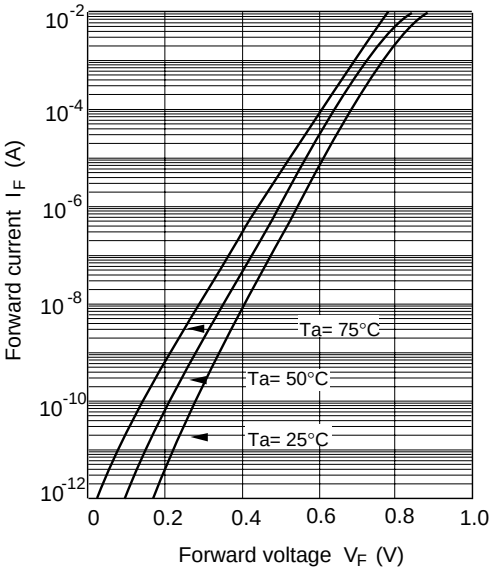


Fig.1 Forward current Vs. Forward voltage

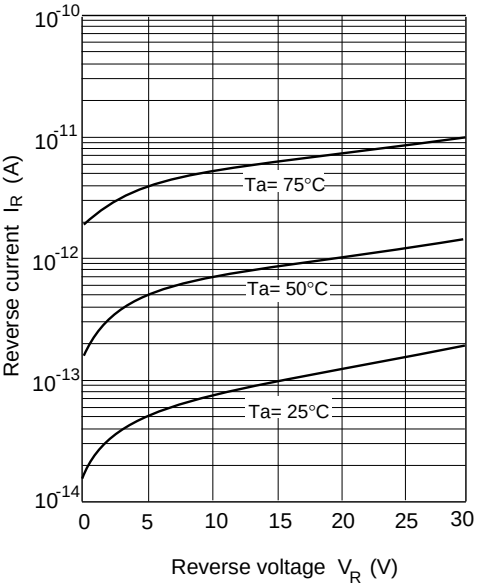


Fig.2 Reverse current Vs. Reverse voltage

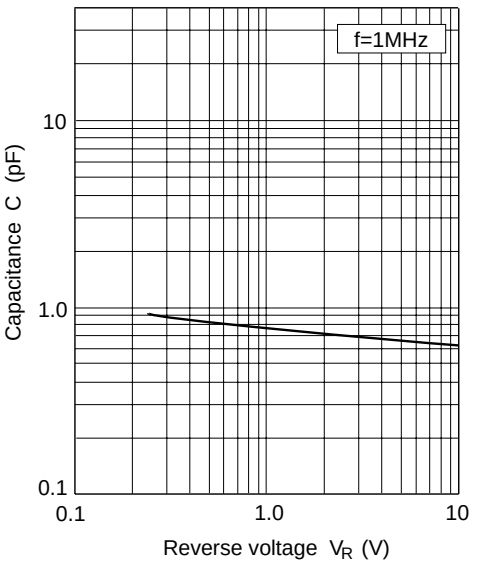


Fig.3 Capacitance Vs. Reverse voltage

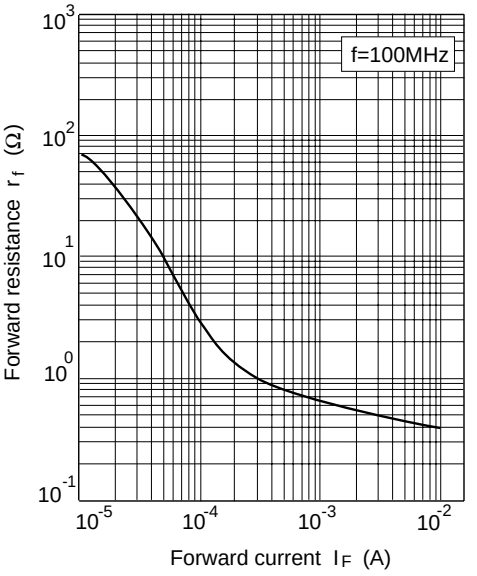
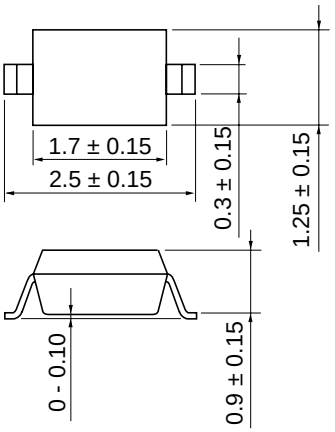


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit: mm





Hitachi Code	URP
JEDEC	—
EIAJ	—
Mass	0.004 g

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