ADE-208-054C(Z)

HVU187
Silicon Epitaxial Planar Pin Diode for High Frequency Attenuator

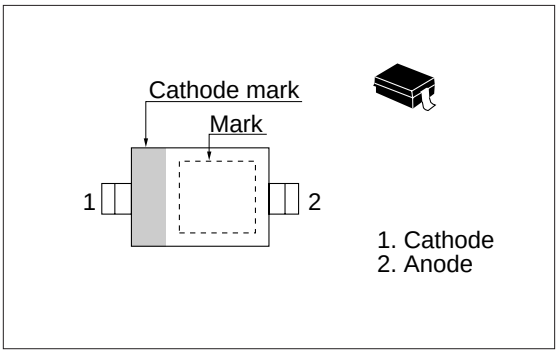
HITACHI

Preliminary
Rev. 3
May. 1993

Features

- Low forward resistance. (r_f=5.5Ω max)
- Ultra small Resin Package (URP) is suitable for surface mount design.

Outline



Ordering Information

Type No.	Laser Mark	Package Code
HVU187	D	URP

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	60	V
Forward current	I_F	50	mA
Power dissipation	P_d	100	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
Forward voltage	V_F	—	—	1.0	V	I_F = 10 mA
Reverse current	I_R	—	—	100	nA	V_R = 60 V
Capacitance	C	—	—	2.4	pF	V_R = 0 V , f = 1 MHz
Forward resistance	r_f	3.5	—	5.5	Ω	I_F = 10 mA, f = 100 MHz
ESD-Capability	—	200	—	—	V	*C=200pF, Both forward and reverse direction 1 pulse

* Failure criterion ; $I_R \geq$ 100nA at V_R= 60V

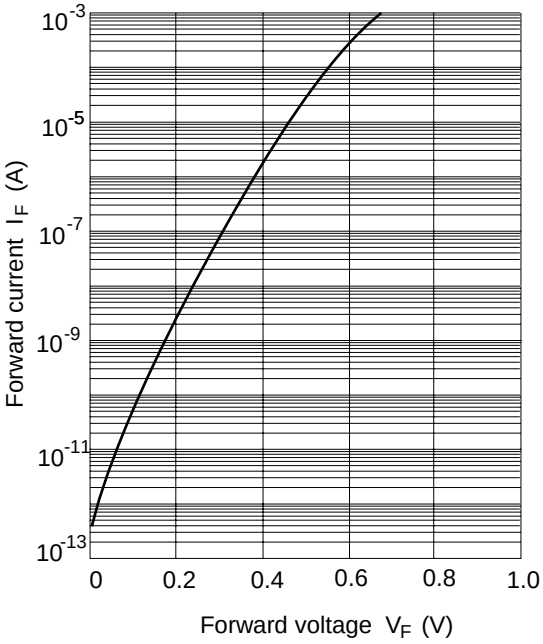


Fig.1 Forward current Vs. Forward voltage

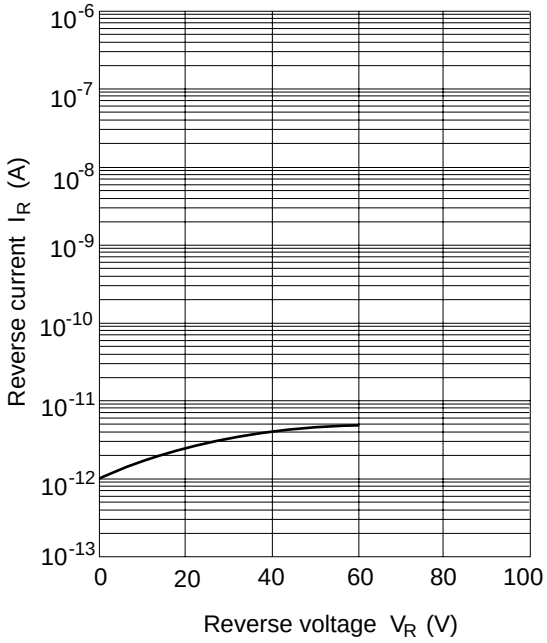


Fig.2 Reverse current Vs. Reverse voltage

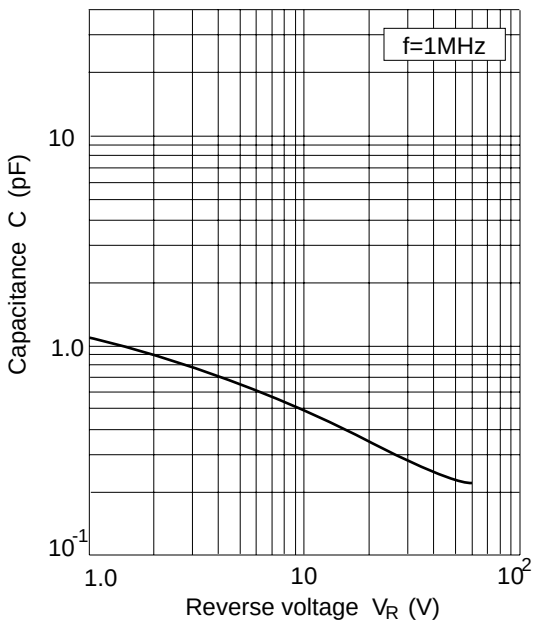


Fig.3 Capacitance Vs. Reverse voltage

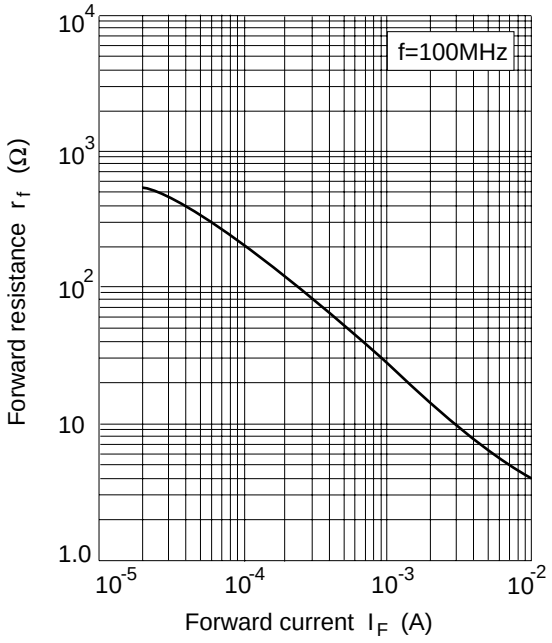
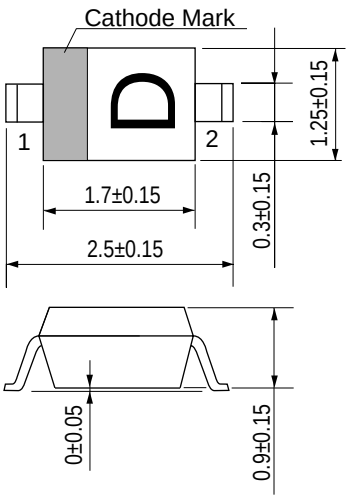


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit: mm



1 Cathode
2 Anode

HITACHI Code	URP
JEDEC Code	—
EIAJ Code	—
Weight (g)	0.004