

# HSU277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

# HITACHI

ADE-208-018G(Z)

Rev 6

Nov. 1998

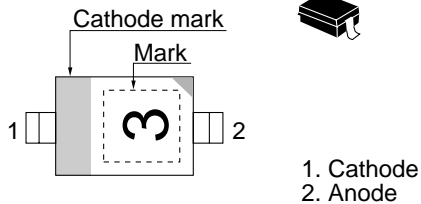
## Features

- Low forward resistance. ( $r_f = 0.7\Omega$  max)
- Ultra small Resin Package (URP) is suitable for surface mount design.

## Ordering Information

Type No.	Laser Mark	Package Code
HSU277	3	URP

## Outline



**Absolute Maximum Ratings (Ta = 25°C)**

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Power dissipation	$P_d$	150	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-45 to +125	°C
Operation temperature	$T_{opr}$	-20 to +60	°C

**Electrical Characteristics (Ta = 25°C)**

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	$V_R$	35	—	—	V	$I_R = 10\mu A$
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10\text{ mA}$
Reverse current	$I_R$	—	—	50	nA	$V_R = 25\text{ V}$
Capacitance	C	—	—	1.2	pF	$V_R = 6\text{ V}, f = 1\text{ MHz}$
Forward resistance	$r_f$	—	—	0.7	$\Omega$	$I_F = 2\text{ mA}, f = 100\text{ MHz}$

Main Characteristic

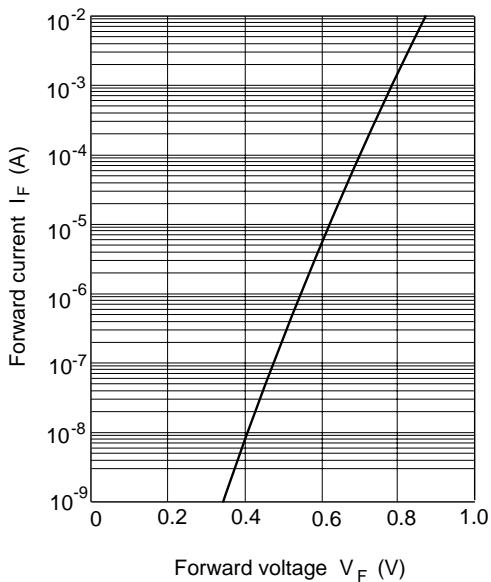


Fig.1 Forward current Vs. Forward voltage

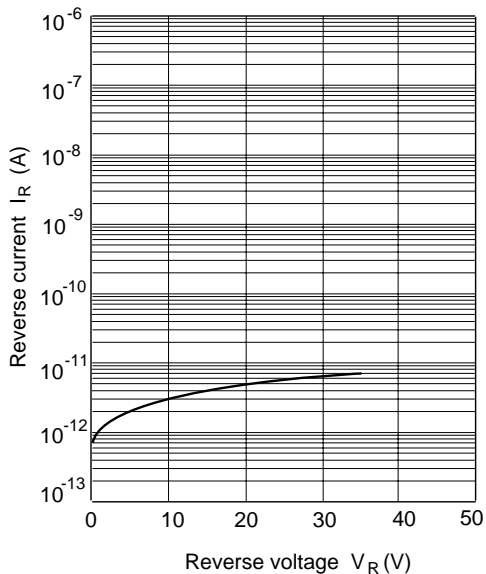


Fig.2 Reverse current Vs. Reverse voltage

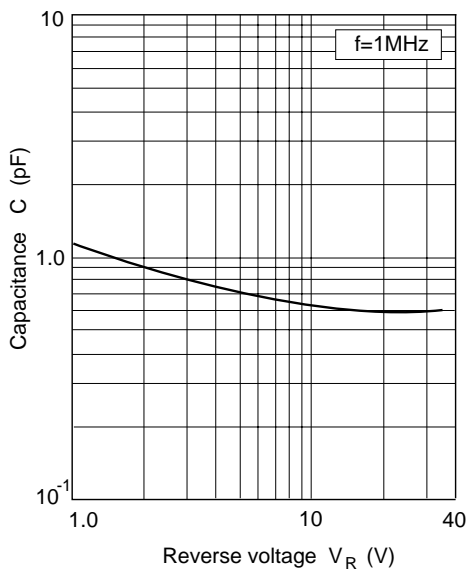


Fig.3 Capacitance Vs. Reverse voltage

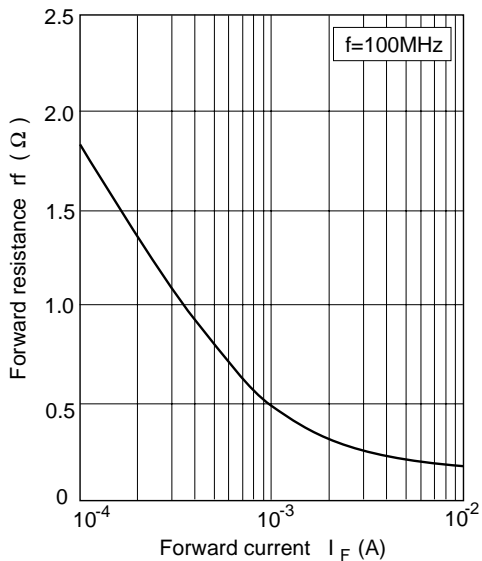
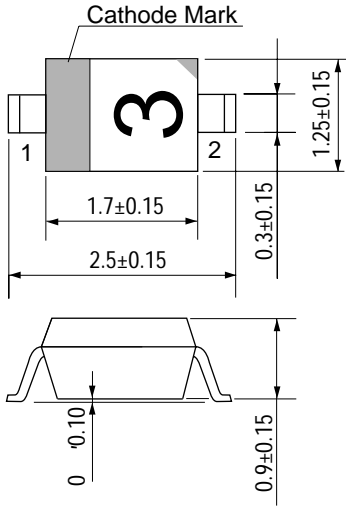


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit : mm



- 1. Cathode
- 2. Anode

Hitachi Code	URP
JEDECCode	—
EIAJCode	—
Weight(g)	0.004

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