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Renesas Technology Corp.
Customer Support Dept.
April 1, 2003

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Keep safety first in your circuit designs!

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Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

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HSU277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch



ADE-208-018G(Z)

Rev. 6
Nov. 1998

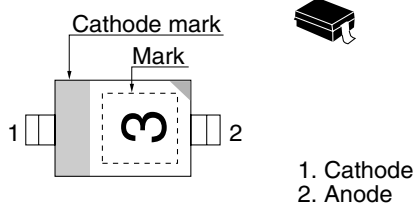
Features

- 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

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	35	V
Power dissipation	Pd	150	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-45 to +125	°C
Operation temperature	Topr	-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_i	—	—	0.7	Ω	$I_F = 2\text{ mA}$, $f = 100\text{ MHz}$

Main Characteristic

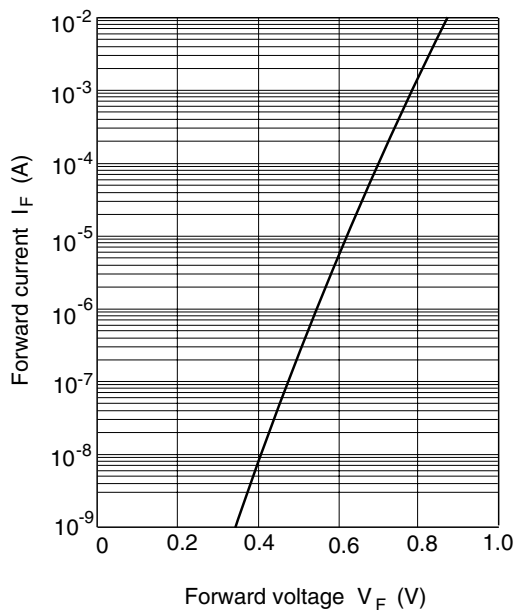


Fig.1 Forward current Vs. Forward voltage

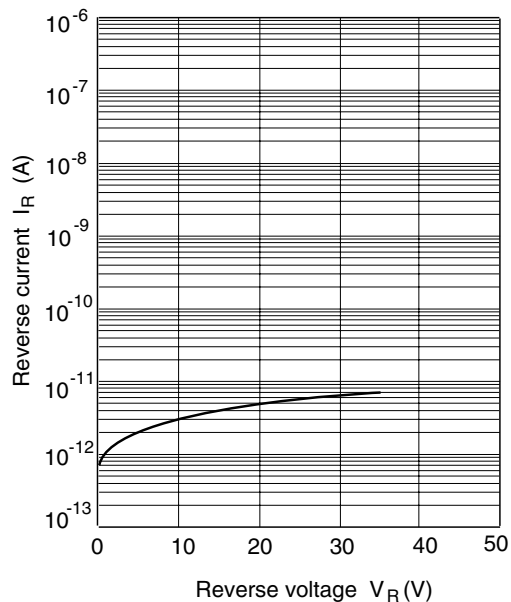


Fig.2 Reverse current Vs. Reverse voltage

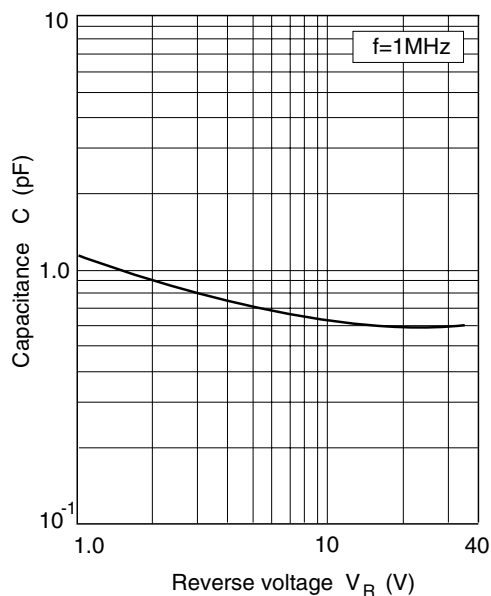


Fig.3 Capacitance Vs. Reverse voltage

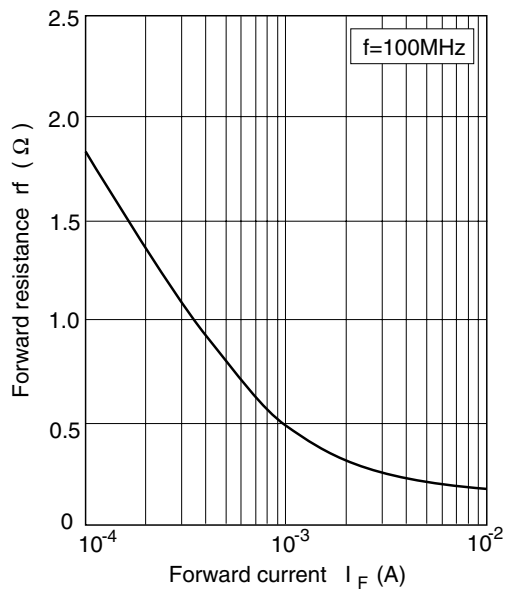
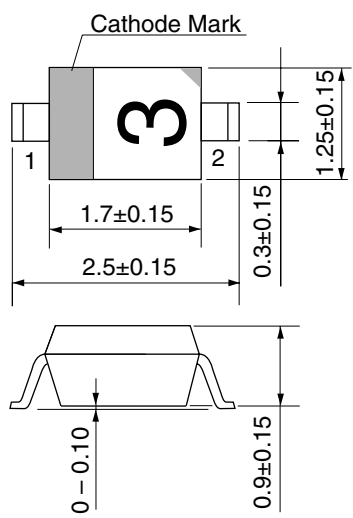


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit : mm



- 1. Cathode
- 2. Anode

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

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