

HSU276

Silicon Schottky Barrier Diode for Mixer

HITACHI

ADE-208-078F(Z)

Rev 6

Jul. 1996

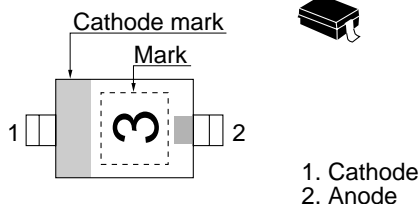
Features

- High forward current, Low capacitance.
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSU276	3	URP

Outline



Absolute Maximum Ratings ($T_a = 25^{\circ}\text{C}$)

Item	Symbol	Value	Unit
Reverse voltage	V_R	3	V
Average rectified current	I_O	30	mA
Junction temperature	T_J	125	$^{\circ}\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^{\circ}\text{C}$

Electrical Characteristics ($T_a = 25^{\circ}\text{C}$)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	3	—	—	V	$I_R = 1\text{ mA}$
Reverse current	I_R	—	—	50	μA	$V_R = 0.5\text{V}$
Forward current	I_F	35	—	—	mA	$V_F = 0.5\text{V}$
Capacitance	C	—	—	0.85	pF	$V_R = 0.5\text{V}$, $f = 1\text{ MHz}$
ESD-Capability ^{*1}	—	30	—	—	V	C = 200pF , Both forward and reverse direction 1 pulse.

Note: 1. Failure criterion ; $I_R \geq 100\mu\text{A}$ at $V_R = 0.5\text{ V}$

Main Characteristic

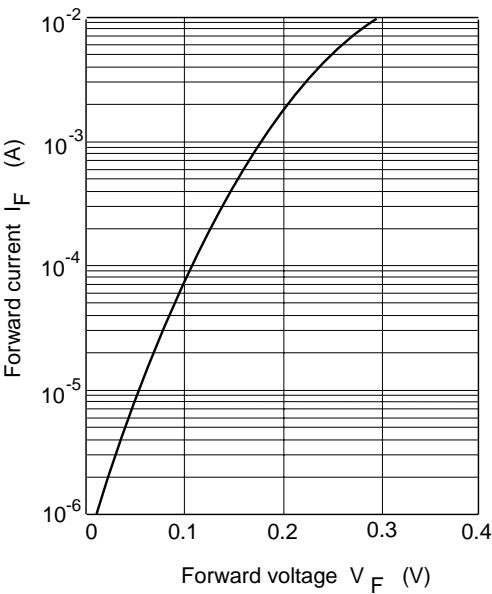


Fig.1 Forward current Vs. Forward voltage

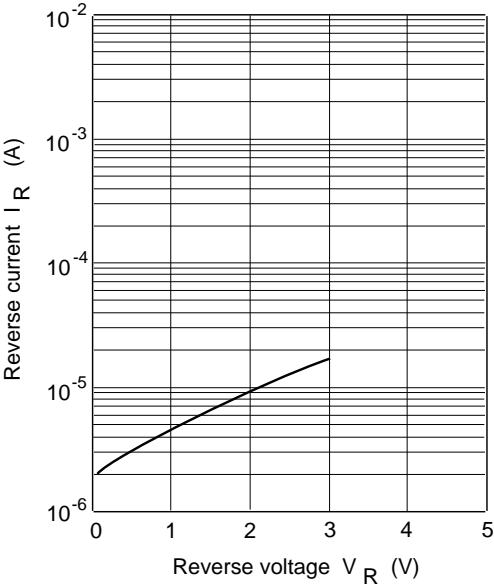


Fig.2 Reverse current Vs. Reverse voltage

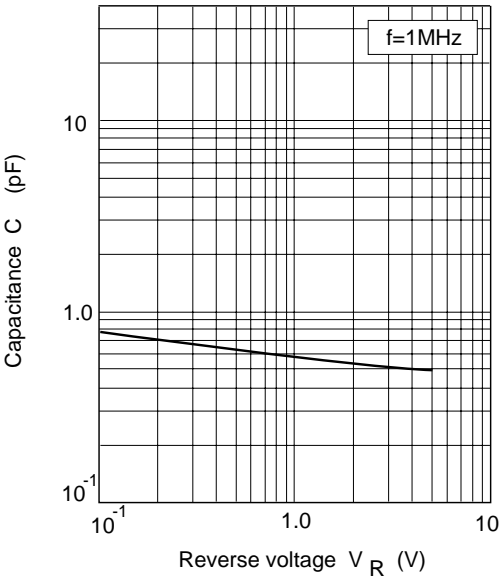
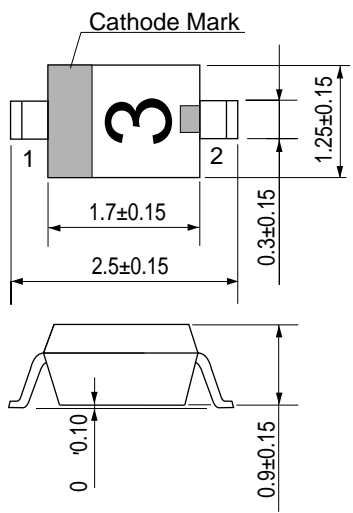


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions

Unit : mm



- 1. Cathode
- 2. Anode

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

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