# **HSU276**

# Silicon Schottky Barrier Diode for Mixer

# **HITACHI**

ADE-208-078F(Z)

Rev. 6 Jul. 1996

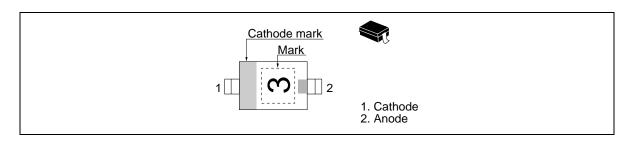
### **Features**

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

### **Ordering Information**

Type No.	Laser Mark	Package Code
HSU276	3	URP

### **Outline**





## **HSU276**

## **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Value	Unit
Reverse voltage	$V_{_{\mathrm{R}}}$	3	V
Average rectified current	I <sub>o</sub>	30	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

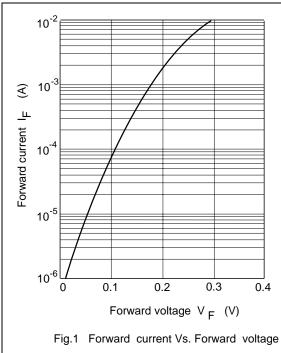
## **Electrical Characteristics**

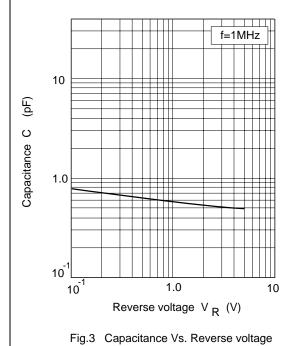
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	$V_{_{R}}$	3	_	_	V	I <sub>R</sub> = 1 mA
Reverse current	I <sub>R</sub>	_	_	50	μA	V <sub>R</sub> = 0.5V
Forward current	I <sub>F</sub>	35	_	_	mΑ	$V_F = 0.5V$
Capacitance	С	_	_	0.85	рF	V <sub>R</sub> = 0.5V, f = 1 MHz
ESD-Capability <sup>*1</sup>	_	30	_	_	V	C = 200pF , Both forward and reverse direction 1 pulse.

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

### **Main Characteristic**





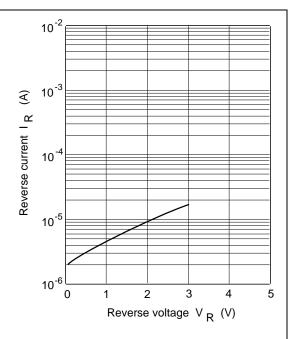
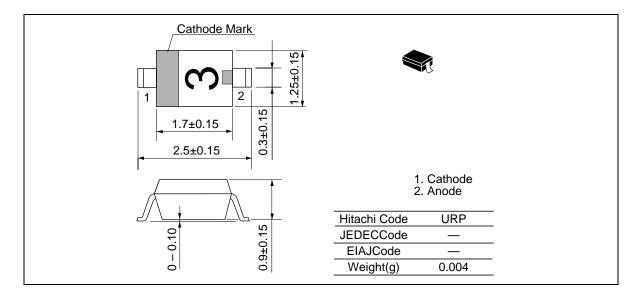


Fig.2 Reverse current Vs. Reverse voltage

## **HSU276**

## **Package Dimensions**

Unit:mm



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