

# HSC226

Silicon Schottky Barrier Diode

# HITACHI

ADE-208-831A (Z)  
Rev.1  
Aug. 2000

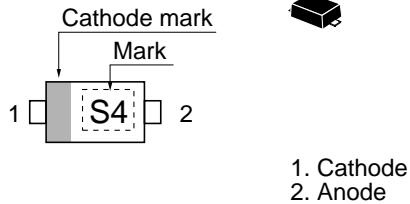
## Features

- Low reverse current, Low capacitance.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

## Ordering Information

Type No.	Laser Mark	Package Code
HSC226	S4	UFP

## Outline



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

Item	Symbol	Value	Unit
Repetitive peak reverse voltage	$V_{RRM}$	25	V
Non-Repetitive peak forward surge current	$I_{FSM}^*$	200	mA
Forward current	$I_F$	50	mA
Junction temperature	$T_j$	125	$^\circ\text{C}$
Storage temperature	$T_{stg}$	-55 to +125	$^\circ\text{C}$

Note: 10ms Sinewave 1pulse

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

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	$V_{F1}$	—	—	0.33	V	$I_F = 1\text{ mA}$
	$V_{F2}$	—	—	0.38		$I_F = 5\text{ mA}$
Reverse current	$I_R$	—	—	0.45	$\mu\text{A}$	$V_R = 20\text{ V}$
Capacitance	C	—	—	2.80	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$

Main Characteristic

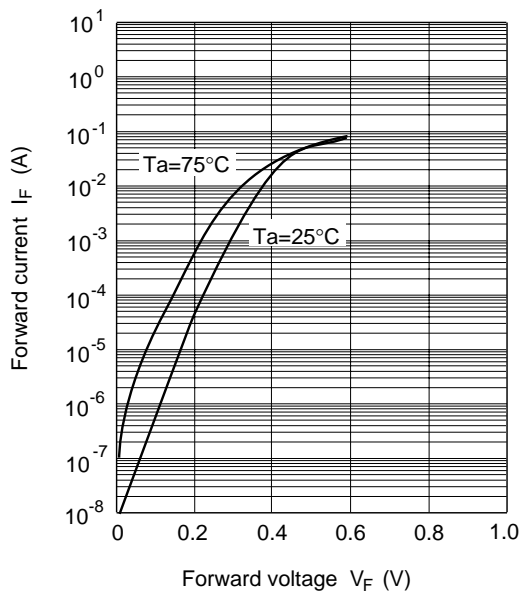


Fig.1 Forward current Vs. Forward voltage

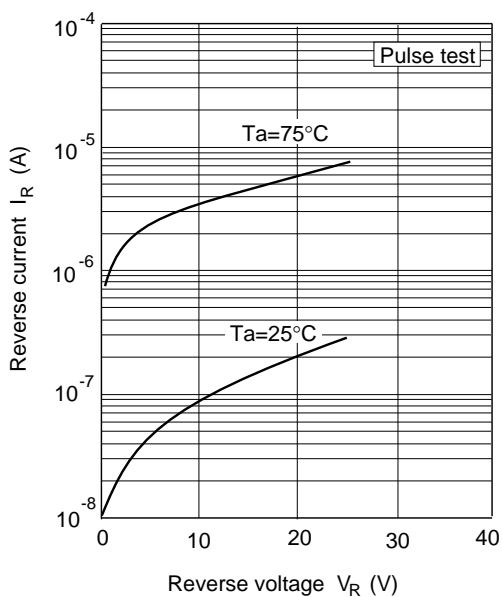


Fig.2 Reverse current Vs. Reverse voltage

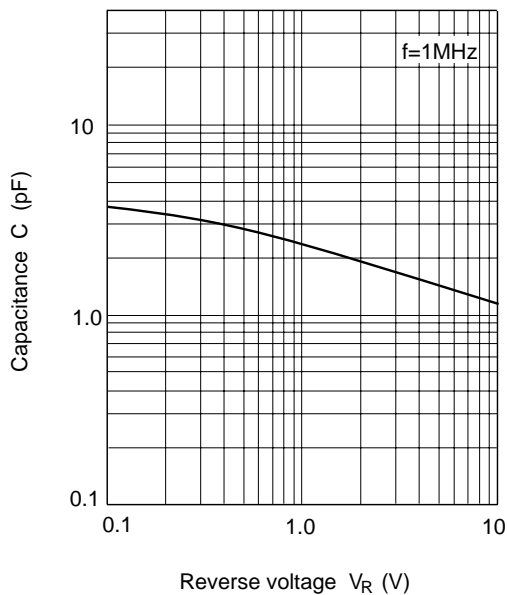
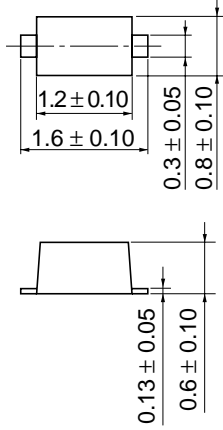


Fig.3 Capacitance Vs. Reverse voltage

## Package Dimensions

Unit: mm



Hitachi Code	UFP
JEDEC	—
EIAJ	Conforms
Mass (reference value)	0.0016 g

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