

# 1SS277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

# HITACHI

ADE-208-301A(Z)

Rev 1

March 1996

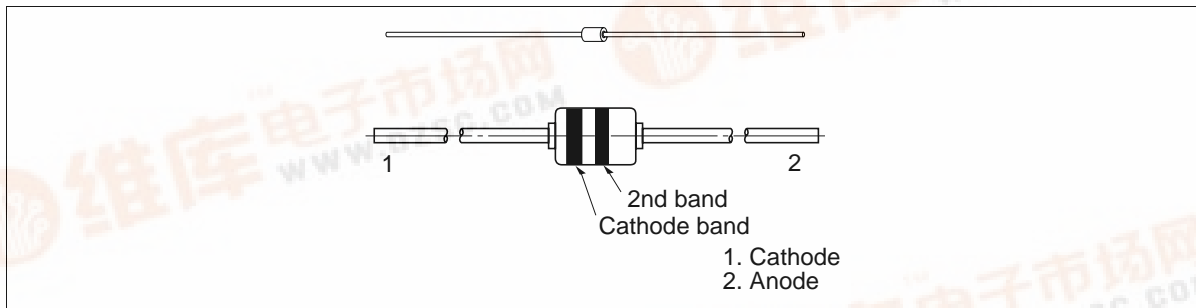
## Features

- Low forward resistance. ( $r_f = 0.5\Omega$  max)
- Ultra small glass package (UMD) enables easy mounting and high reliability.

## Ordering Information

Type No.	Cathode band	2nd band	Package Code
1SS277	Verdure	Blue	UMD

## Outline



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## 1SS277

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

Item	Symbol	Value	Unit
Reverse voltage	VR	35	V
Forward current	IF	100	mA
Power dissipation	Pd	100	mW
Operation temperature	Topr	-20 to +60	°C
Storage temperature	Tstg	-55 to +150	°C

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

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	VR	35			V	IR = 10µA
Forward voltage	VF			1.0	V	IF = 10 mA
Reverse current	IR			10	nA	VR = 25V
Capacitance	C			1.2	pF	VR = 6V, f = 1 MHz
Forward resistance	rf			0.5	Ω	IF = 2 mA, f = 100 MHz

## Main Characteristic

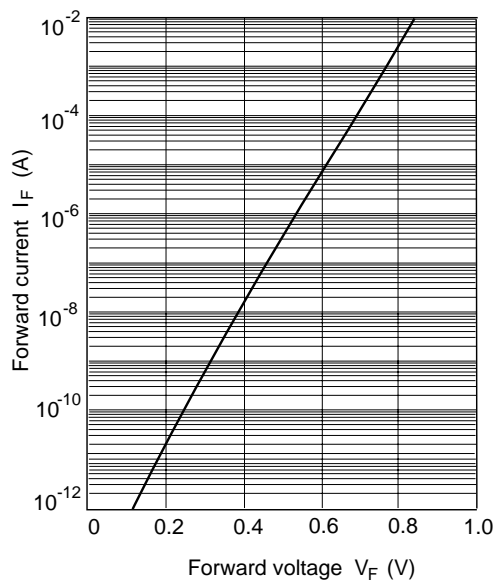


Fig.1 Forward current Vs. Forward voltage

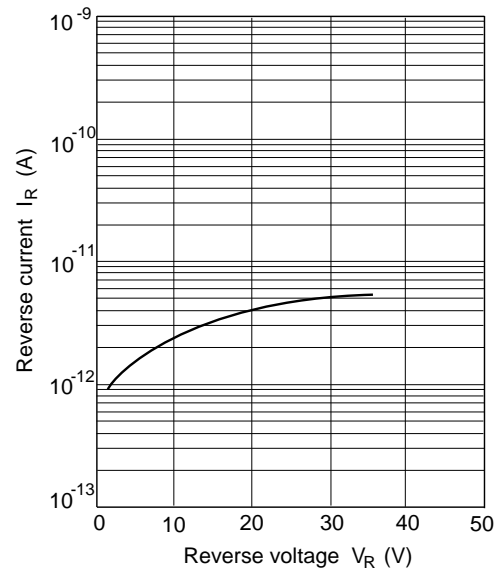


Fig.2 Reverse current Vs. Reverse voltage

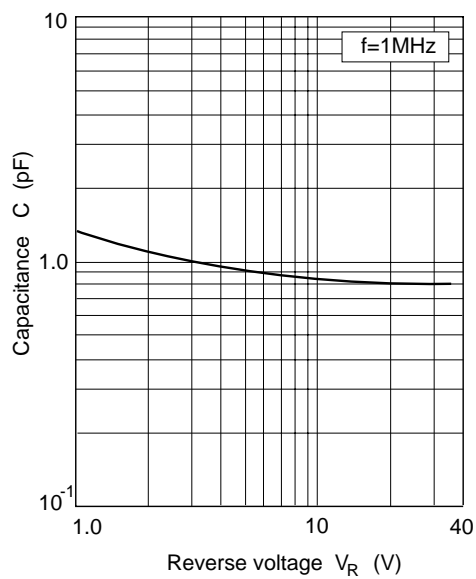


Fig.3 Capacitance Vs. Reverse voltage

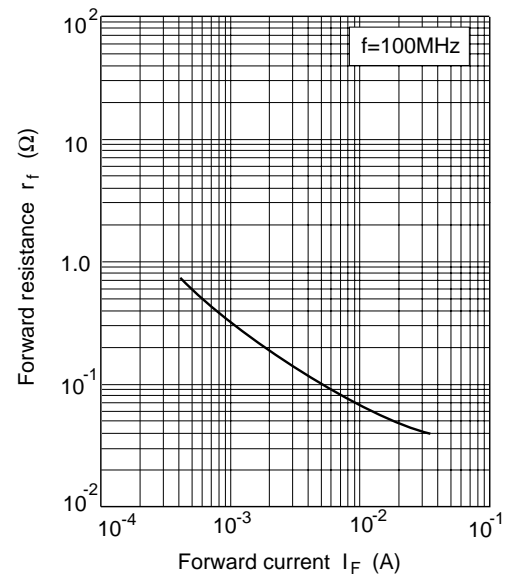


Fig.4 Forward resistance Vs. Forward current

Main Characteristic

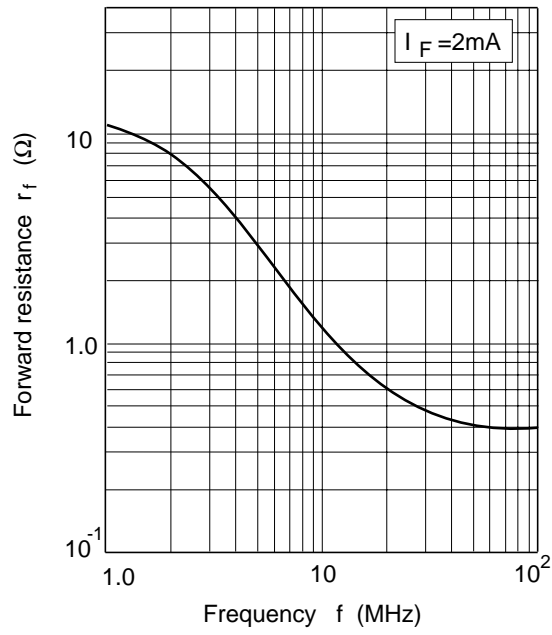


Fig.5 Forward resistance Vs. Frequency

## Package Dimensions

Unit : mm

