
1SS277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

HITACHI

ADE-208-301B(Z)

Rev. 2

Sept. 1, 1998

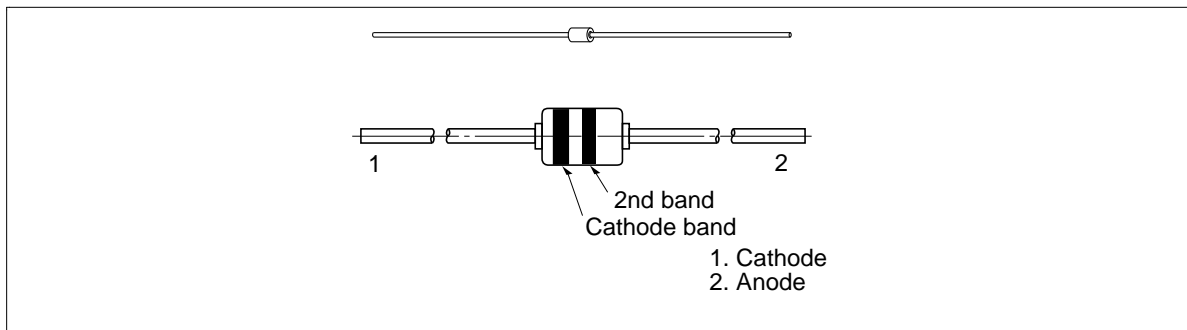
Features

- 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



1SS277

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	35	V
Forward current	I_F	100	mA
Junction temperature	T_j	175	°C
Storage temperature	T_{stg}	-65 to +175	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	35	—	—	V	$I_R = 10\mu\text{A}$
Forward voltage	V_F	—	—	1.0	V	$I_F = 10\text{ mA}$
Reverse current	I_R	—	—	10	nA	$V_R = 25\text{V}$
Capacitance	C	—	—	1.2	pF	$V_R = 6\text{V}, f = 1\text{ MHz}$
Forward resistance	r_f	—	—	0.5	Ω	$I_F = 2\text{ mA}, f = 100\text{ MHz}$

Main Characteristic

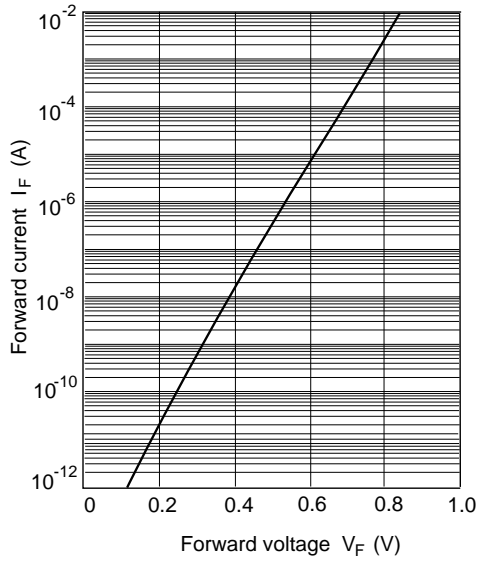


Fig.1 Forward current Vs. Forward voltage

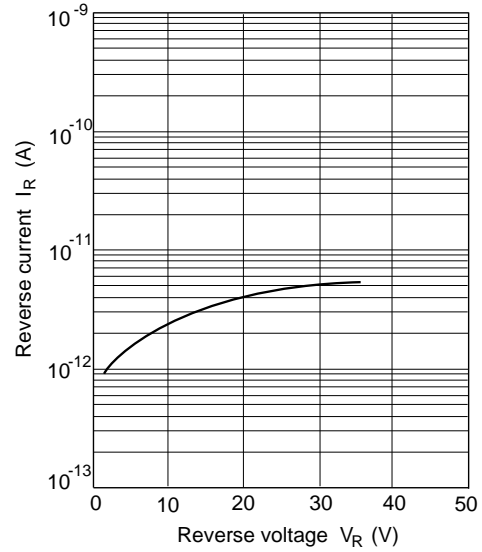


Fig.2 Reverse current Vs. Reverse voltage

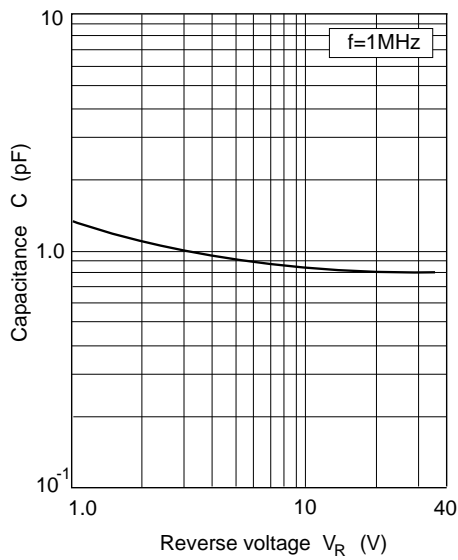


Fig.3 Capacitance Vs. Reverse voltage

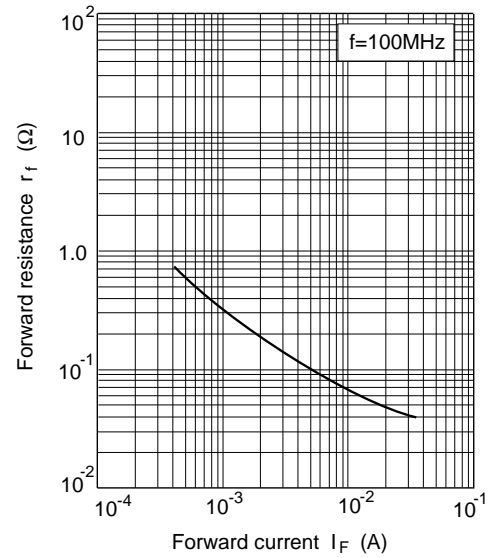


Fig.4 Forward resistance Vs. Forward current

Main Characteristic

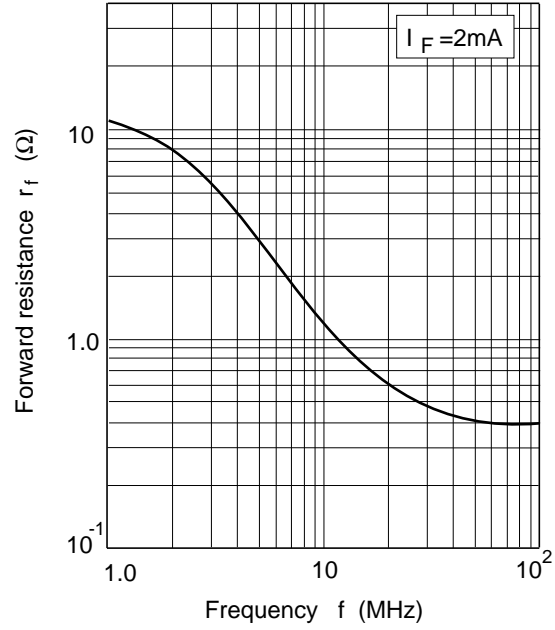
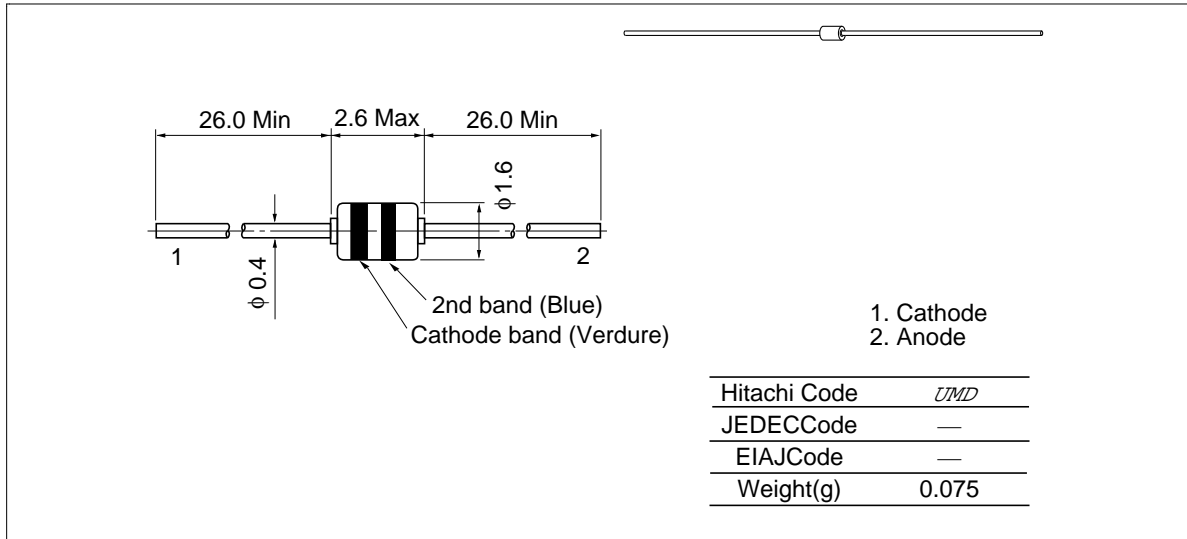


Fig.5 Forward resistance Vs. Frequency

Package Dimensions (Unit : mm)



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