

HSC277

Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

HITACHI

ADE-208-413 (Z)

Rev. 0

Dec. 1995

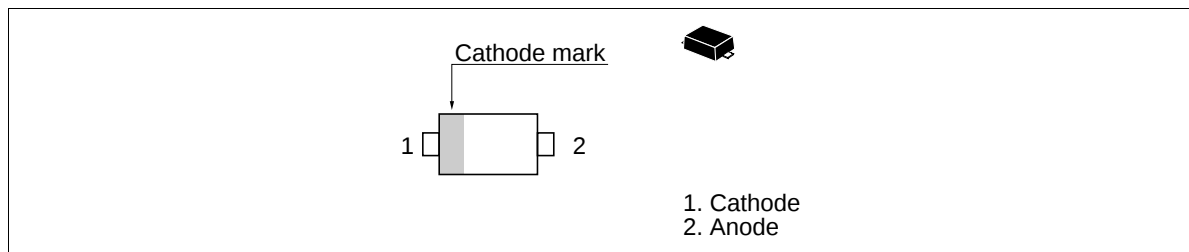
Features

- Low forward resistance. ($r_f = 0.7$ max)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Cathode Mark	Package Code
HSC277	Laser	UFP

Outline



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

Item	Symbol	Value	Unit
Reverse voltage	V_R	35	V
Junction temperature	T_j	125	$^\circ\text{C}$
Power dissipation	P_d	150	mW
Operation temperature	T_{opr}	-20 to +60	$^\circ\text{C}$
Storage temperature	T_{stg}	-45 to +125	$^\circ\text{C}$

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	35	—	—	V	$I_R = 10\mu A$
Reverse current	I_R	—	—	50	μA	$V_R = 25V$
Forward voltage	V_F	—	—	1.0	V	$I_F = 10mA$
Capacitance	C	—	—	1.2	pF	$V_R = 6V, f = 1MHz$
Forward resistance	r_f	—	—	0.7	Ω	$I_F = 2mA, f = 100MHz$

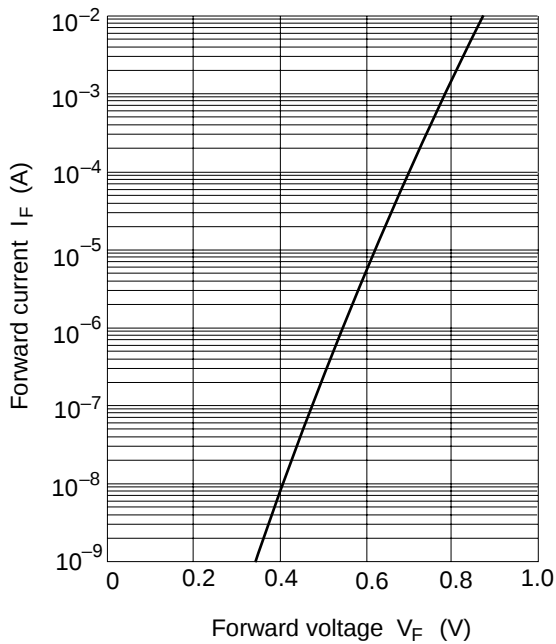


Fig.1 Forward current Vs. Forward voltage

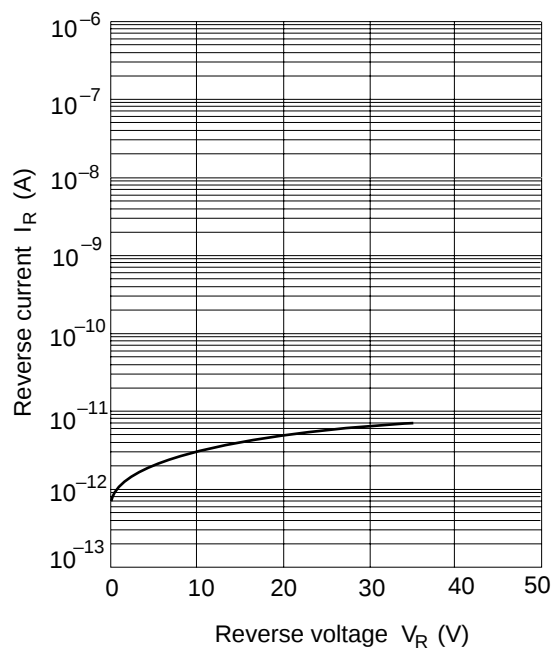


Fig.2 Reverse current Vs. Reverse voltage

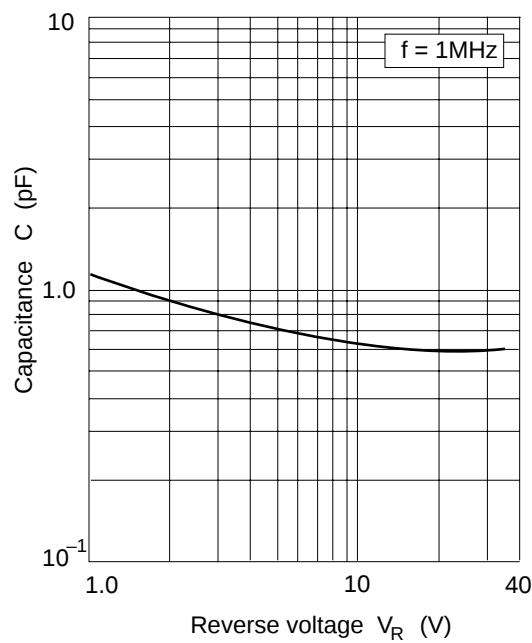


Fig.3 Capacitance Vs. Reverse voltage

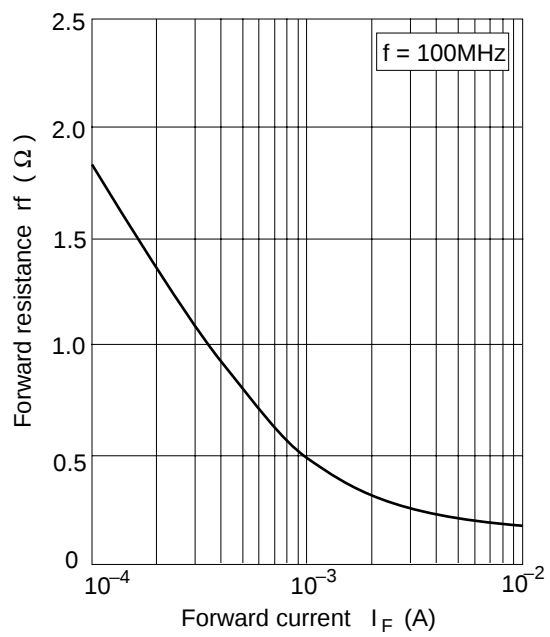
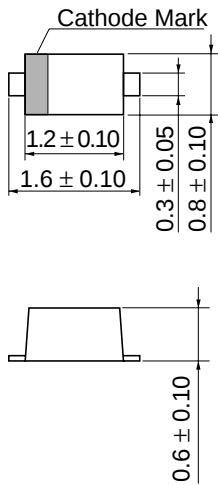


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit: mm



- 1 Cathode
- 2 Anode

HITACHI Code	UFP
JEDEC Code	—
EIAJ Code	SC-79
Weight (g)	0.0016

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