ADE-208-095A(Z)

HSM2694
Silicon Epitaxial Planar Diode for Tuner Band Switch

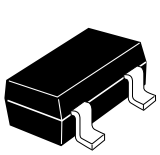
HITACHI

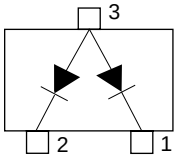
Preliminary
Rev. 1
Jun. 1993

Features

- Low forward resistance. (r_f =0.9Ω max)
- Low capacitance. (C =1.2pF max)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Pin Arrangement





(Top View)

1 Cathode
2 Cathode
3 Anode

Ordering Information

Type No.	Laser Mark	Package Code
HSM2694	B 3	MPAK

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	35	V
Power dissipation	p_d *	150	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-45 to +125	°C
Operation temperature	T_{opr}	-20 to +60	°C

* Two device total

Electrical Characteristics (Ta = 25°C) *

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	35	—	—	V	I_R = 10 µA
Reverse current	I_R	—	—	50	nA	V_R = 25 V
Forward voltage	V_F	—	—	1.0	V	I_F = 10 mA
Capacitance	C	—	—	1.2	pF	V_R= 6 V, f = 1 MHz
Forward resistance	r_f	—	—	0.9	Ω	I_F= 2mA, f=100 MHz

* Per one device

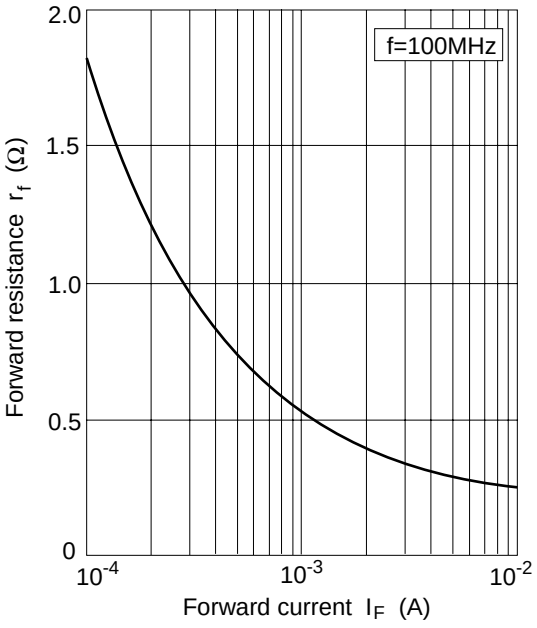


Fig.1 Forward resistance Vs. Forward current

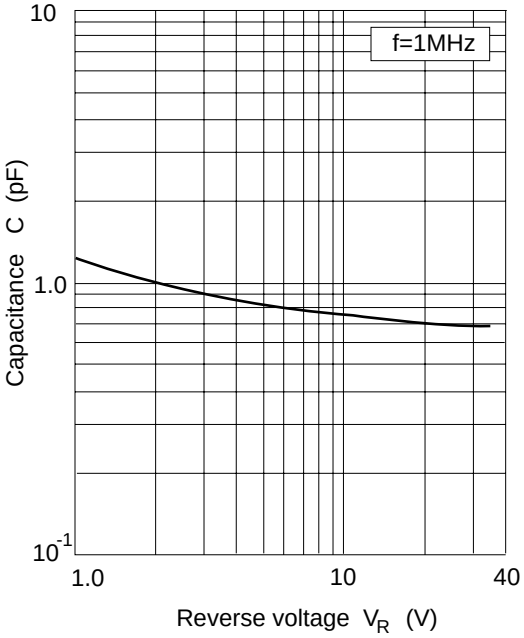


Fig.2 Capacitance Vs. Reverse voltage

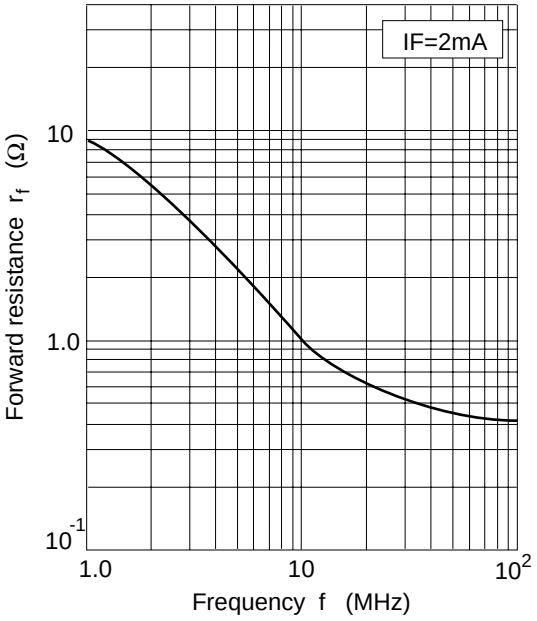
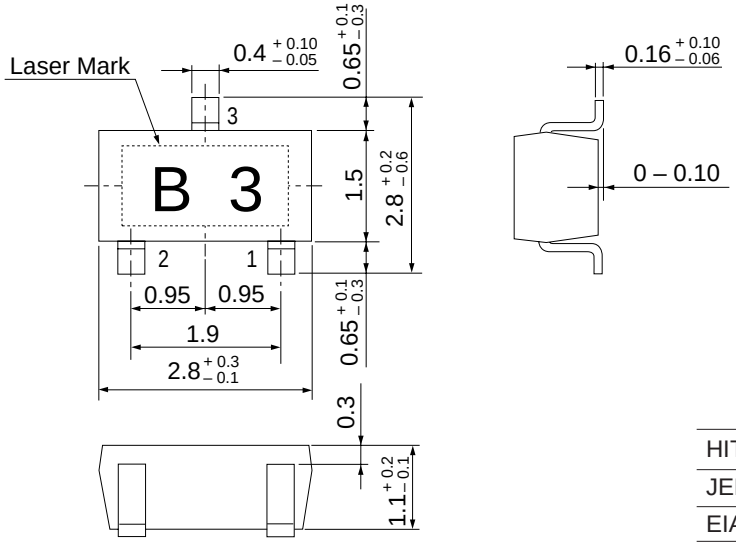


Fig.3 Forward resistance Vs. Frequency

Package Dimensions

Unit: mm



1 Cathode
2 Cathode
3 Anode

HITACHI Code	MPAK(1)
JEDEC Code	—
EIAJ Code	SC-59A
Weight (g)	0.011

ADE-208-018F(Z)

HSU277
Silicon Epitaxial Planar Diode for UHF/VHF tuner Band Switch

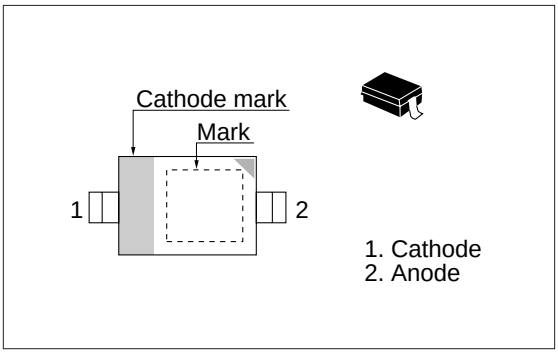
HITACHI

Rev. 5
Sep. 1995

Features

- Low forward resistance. (r_f=0.7Ω max)
- Ultra small Resin Package (URP) is suitable for surface mount design.

Outline



Ordering Information

Type No.	Laser Mark	Package Code
HSU277	3	URP

Absolute Maximum Ratings (Ta = 25°C)

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

Electrical Characteristics (Ta = 25°C)

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

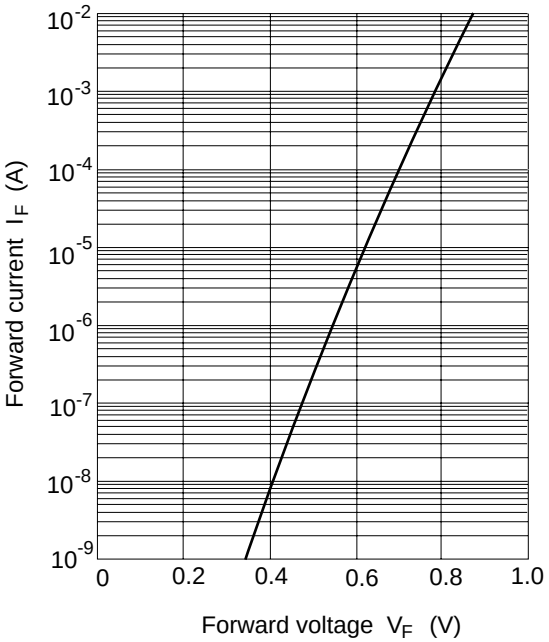


Fig.1 Forward current Vs. Forward voltage

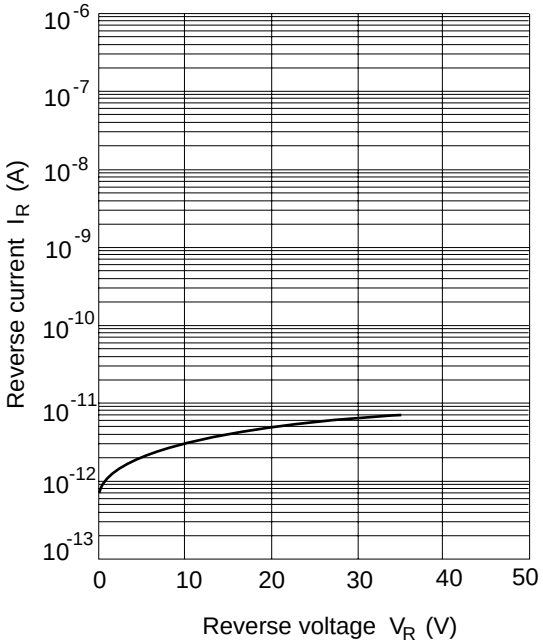


Fig.2 Reverse current Vs. Reverse voltage

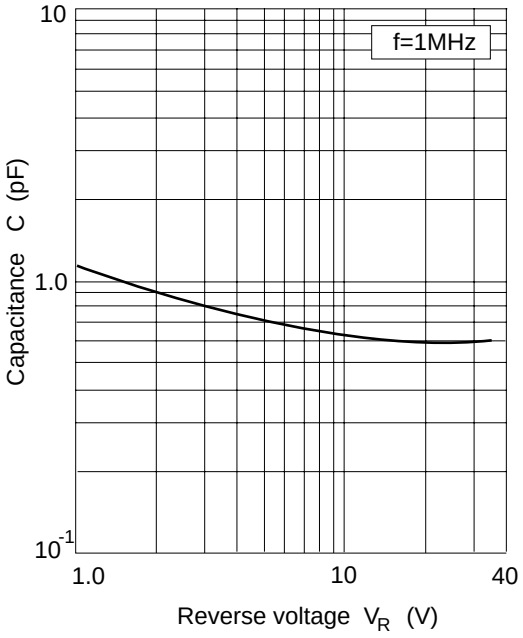


Fig.3 Capacitance Vs. Reverse voltage

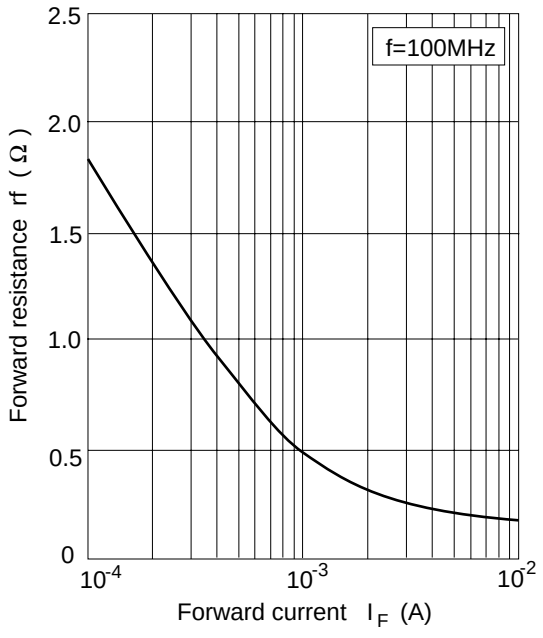
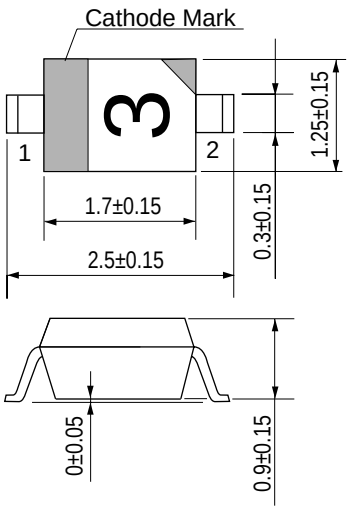


Fig.4 Forward resistance Vs. Forward current

Package Dimensions

Unit: mm



1 Cathode
2 Anode

HITACHI Code	URP
JEDEC Code	—
EIAJ Code	—
Weight (g)	0.004