

HSM2692

Silicon Epitaxial Planar Diode for Tuner Band Switch

HITACHI

ADE-208-093A (Z)

Rev. 1

Jun. 1993

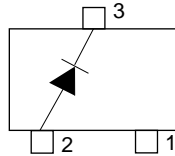
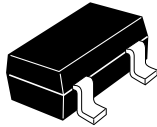
Features

- Low forward resistance. ($r_f = 0.9 \text{ max}$)
- Low capacitance. ($C = 1.2\text{pFmax}$)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM2692	B1	MPAK

Pin Arrangement



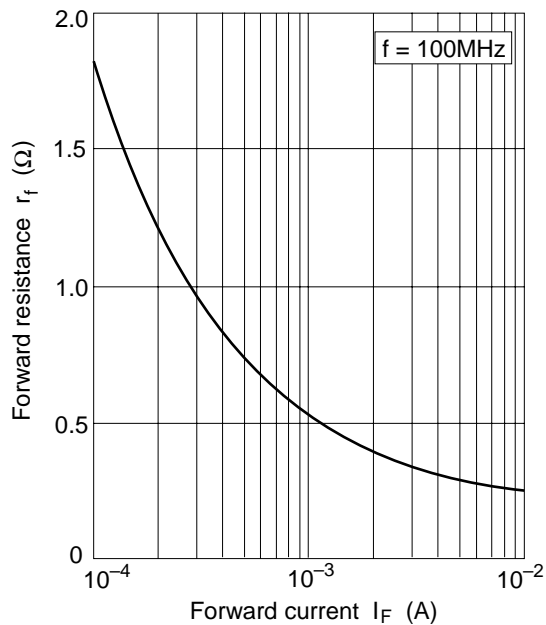
- 1 NC
- 2 Anode
- 3 Cathode

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

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

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

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

**Fig.1 Forward resistance Vs. Forward current**

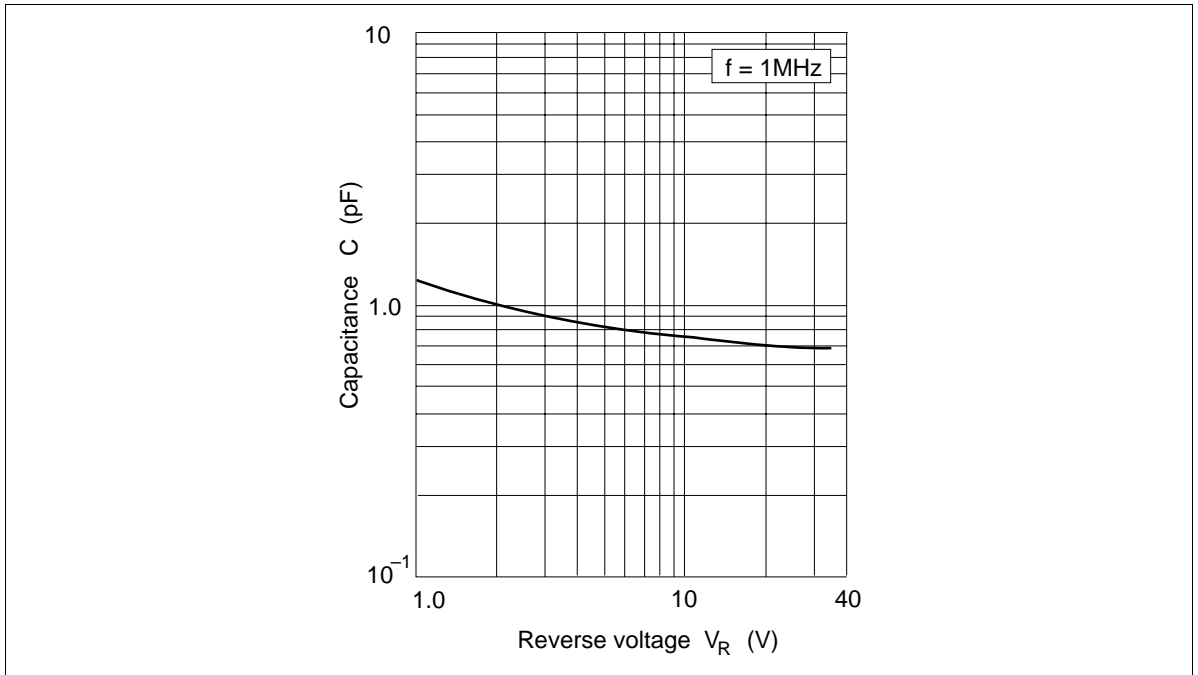


Fig.2 Capacitance Vs. Reverse voltage

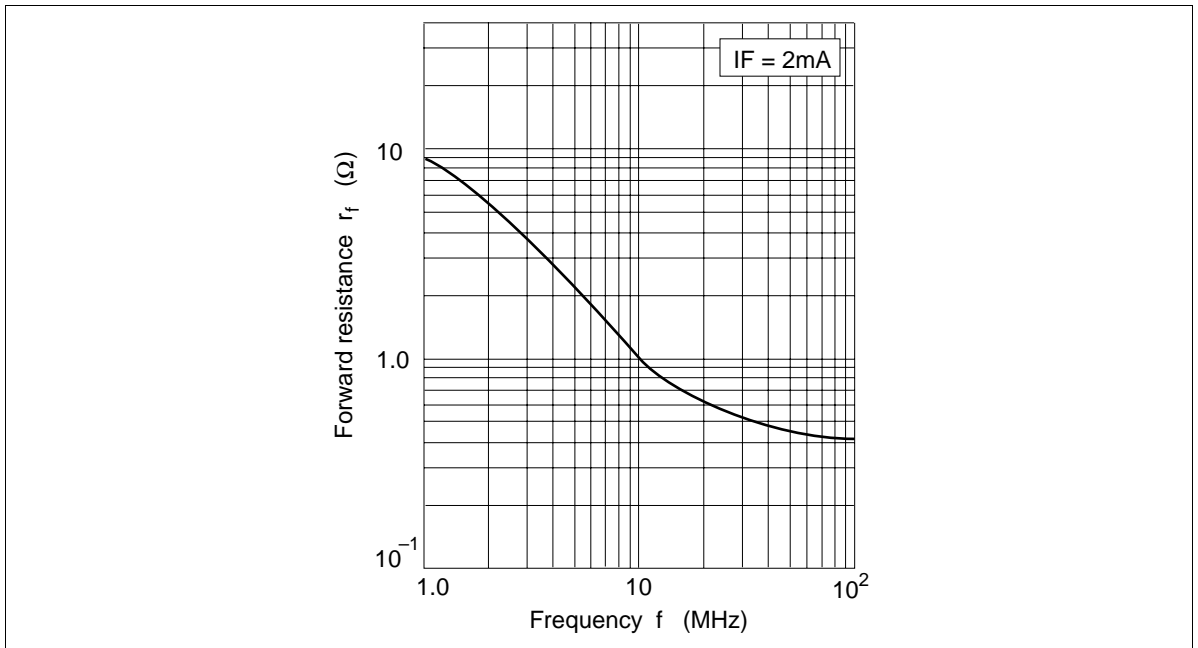
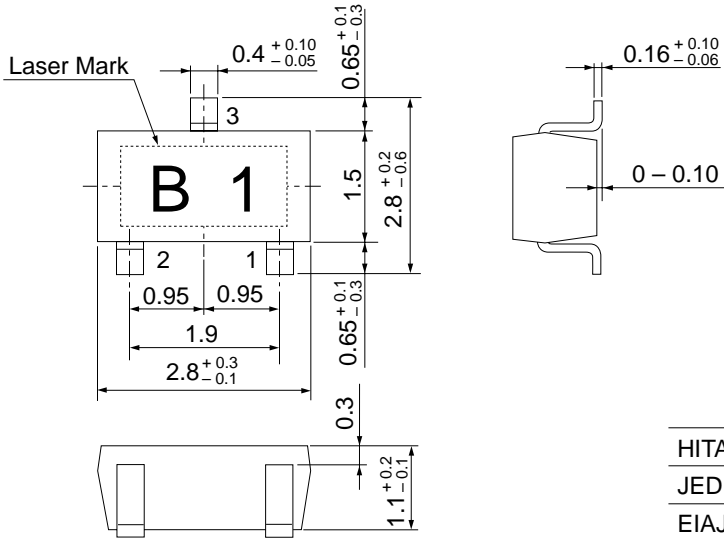


Fig.3 Forward resistance Vs. Frequency

Package Dimensions

Unit: mm



- 1 NC
- 2 Anode
- 3 Cathode

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

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