

# HSM2692

Silicon Epitaxial Planar Diode for Tuner Band Switch

# HITACHI

ADE-208-093A (Z)

Rev. 1

Jun. 1993

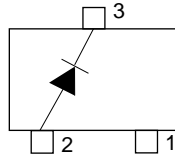
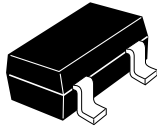
## Features

- Low forward resistance. ( $r_f = 0.9$  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



(Top View)

- 1 NC
- 2 Anode
- 3 Cathode

## 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

## 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	nA	$V_R = 25V$
Forward voltage	$V_F$	—	—	1.0	V	$I_F = 10mA$
Capacitance	C	—	—	1.2	pF	$V_R = 6V, f = 1MHz$
Forward resistance	$r_f$	—	—	0.9	$\Omega$	$I_F = 2mA, f = 100MHz$

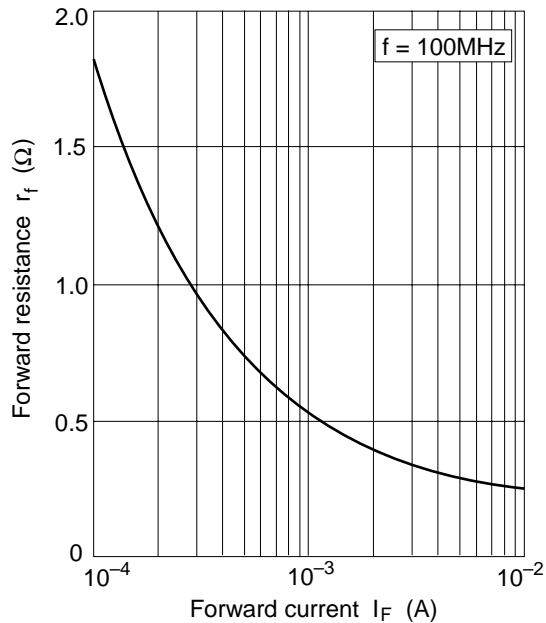
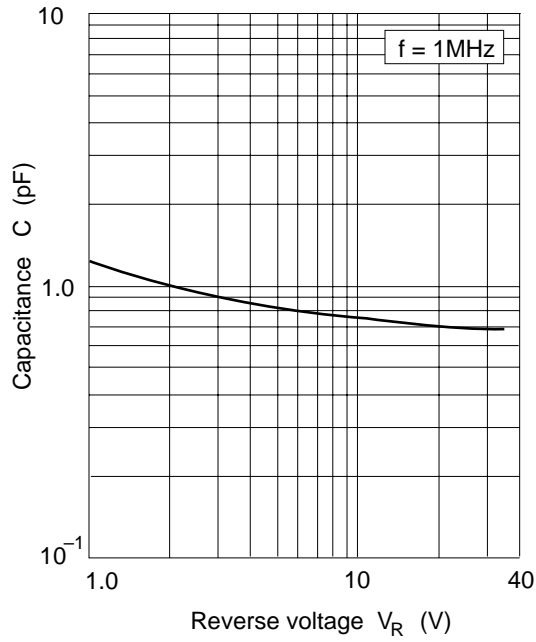
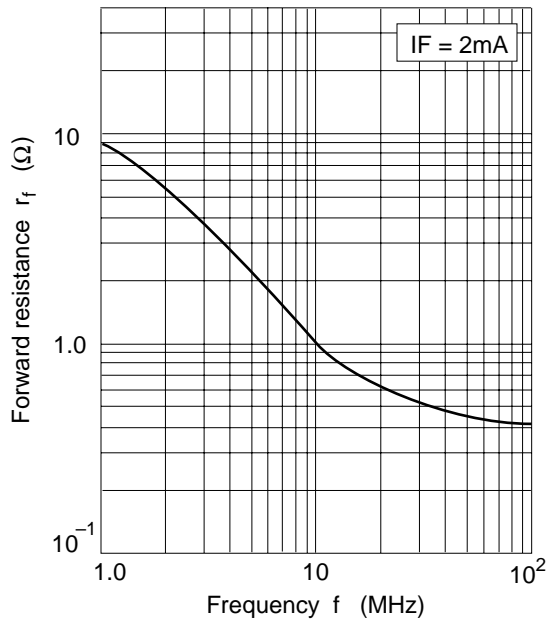


Fig.1 Forward resistance Vs. Forward current



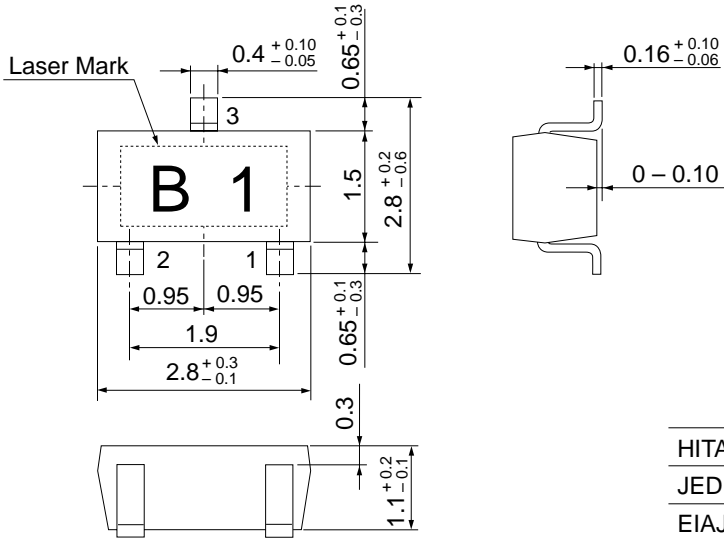
**Fig.2 Capacitance Vs. Reverse voltage**



**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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