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# HSM2693A

Silicon Epitaxial Planar Diode for Tuner Band Switch

## HITACHI

ADE-208-094B (Z)

Preliminary

Rev. 2

Jun. 1993

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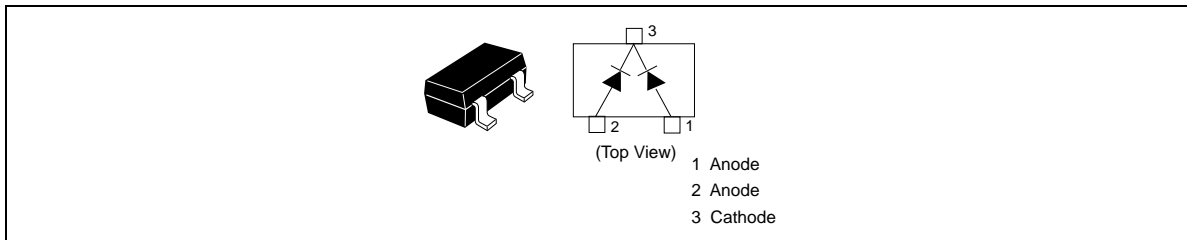
### Features

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

### Ordering Information

Type No.	Laser Mark	Package Code
HSM2693A	B4	MPAK

### Pin Arrangement



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## Absolute Maximum Ratings (Ta = 25°C)

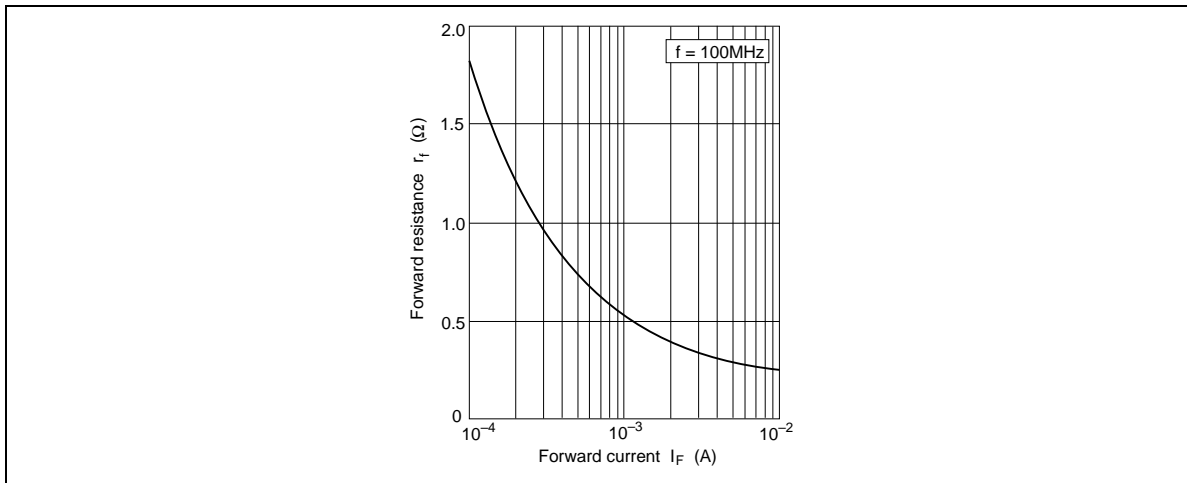
Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Power dissipation	$Pd^*$	150	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-45 to +125	°C
Operation temperature	$T_{opr}$	-20 to +60	°C

Note: Two device total

## Electrical Characteristics (Ta = 25°C)\*

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	$V_R$	35	—	—	V	$I_R = 10\mu A$
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	$\Omega$	$I_F = 2mA, f = 100MHz$

Note: Per one device



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

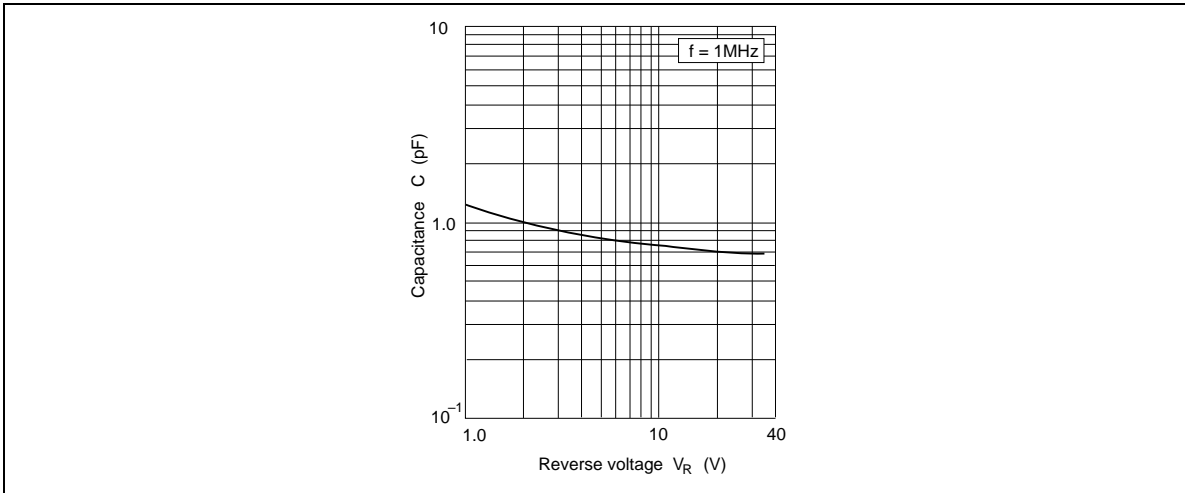


Fig.2 Capacitance Vs. Reverse voltage

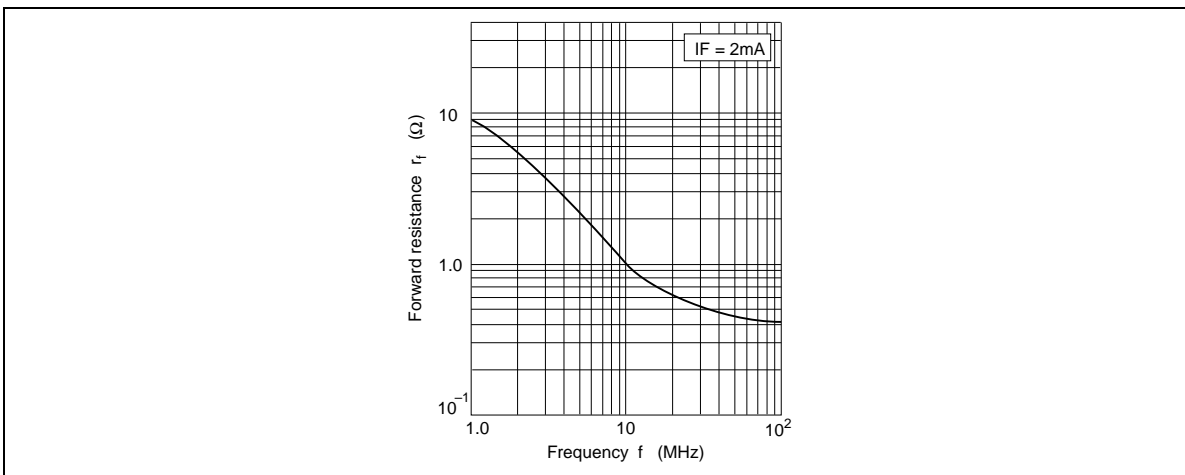


Fig.3 Forward resistance Vs. Frequency

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## Package Dimensions

