## **HSM2693A**

## Silicon Epitaxial Planar Diode for Tuner Band Switch

# **HITACHI**

ADE-208-094B (Z) Rev. 2 Jun. 1993

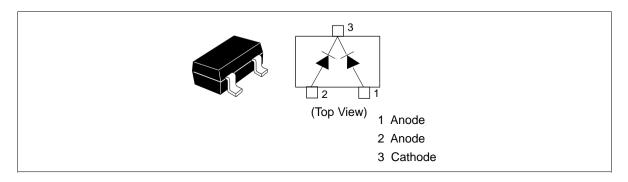
#### Features

- Low forward resistance.  $(r_f = 0.9 \text{ max})$
- Low capacitance. (C = 1.2pFmax)
- 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** ( $Ta = 25^{\circ}C$ )

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Power dissipation	Pd*	150	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-45 to +125	°C
Operation temperature	Topr	-20 to +60	°C

Note: Two device total

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	$V_R$	35	_	_	V	$I_R = 10\mu A$
Reverse current	I <sub>R</sub>	_	_	50	nA	V <sub>R</sub> = 25V
Forward voltage	$V_{F}$	_	_	1.0	V	$I_F = 10 \text{mA}$
Capacitance	С	_	_	1.2	pF	V <sub>R</sub> = 6V, f = 1MHz
Forward resistance	r <sub>f</sub>	_	_	0.9	Ω	I <sub>F</sub> = 2mA, f = 100MHz

Note: Per one device

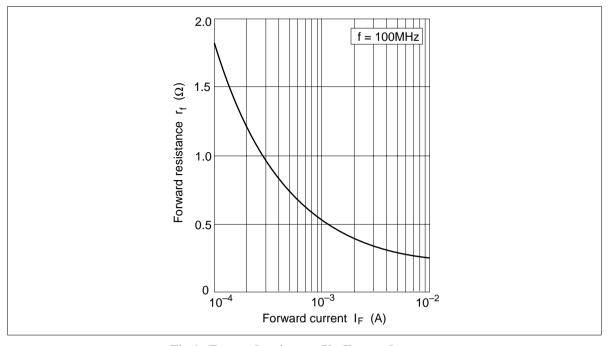


Fig.1 Forward resistance Vs. Forward current

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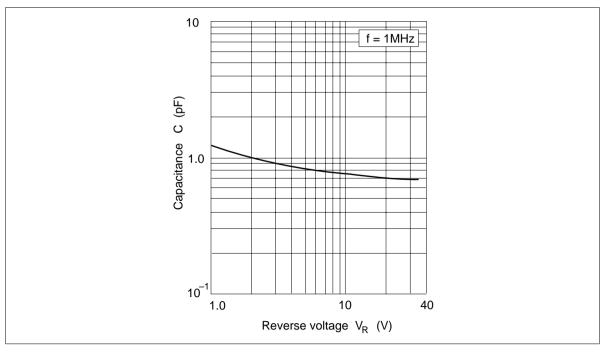


Fig.2 Capacitance Vs. Reverse voltage

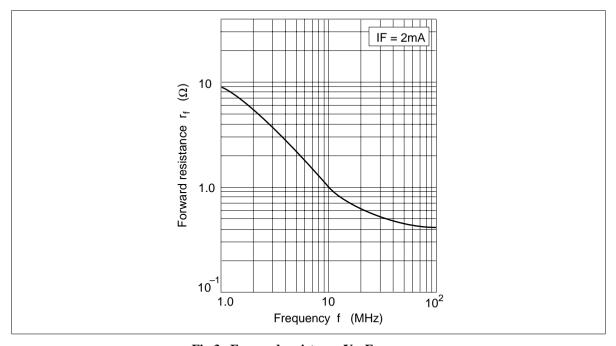
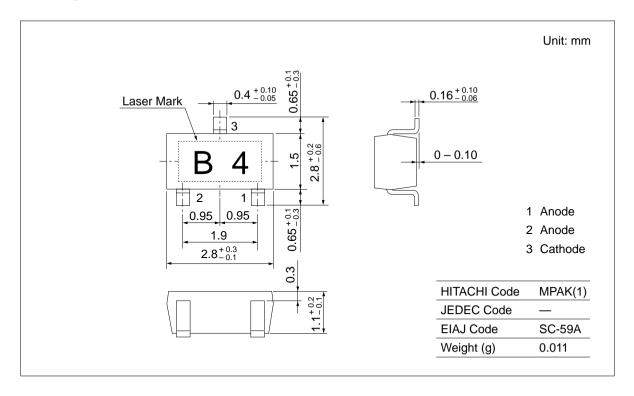


Fig.3 Forward resistance Vs. Frequency

## **HSM2693A**

## **Package Dimensions**



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