HSM2693A

Silicon Epitaxial Planar Diode for Tuner Band Switch

HITACHI

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

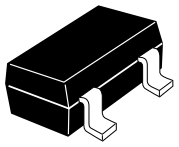
Features

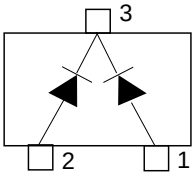
- Low forward resistance. (r_f = 0.9 max)
- Low capacitance. (C = 1.2pFmax)
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HSM2693A	B4	MPAK

Pin Arrangement





(Top View)

1 Anode
2 Anode
3 Cathode

Hitachi semiconductor

Absolute Maximum Ratings (Ta = 25°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	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	35	—	—	V	I_R = 10µA
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	Ω	I_F = 2mA, f = 100MHz

Note: Per one device

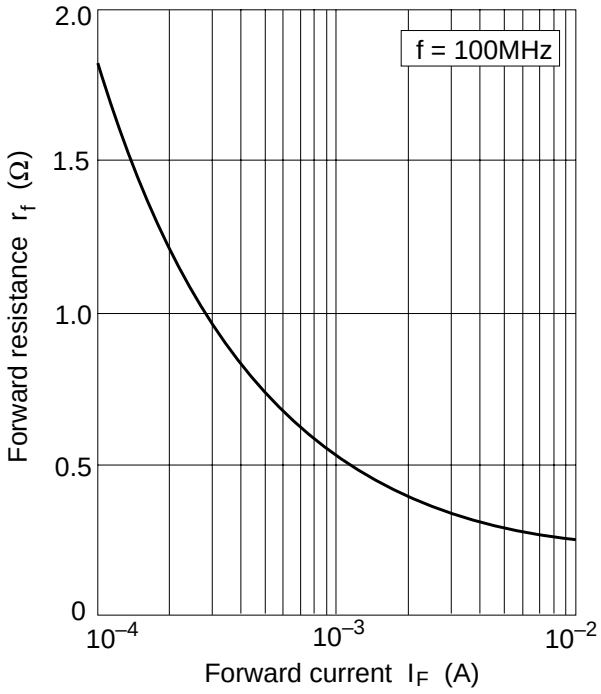


Fig.1 Forward resistance Vs. Forward current

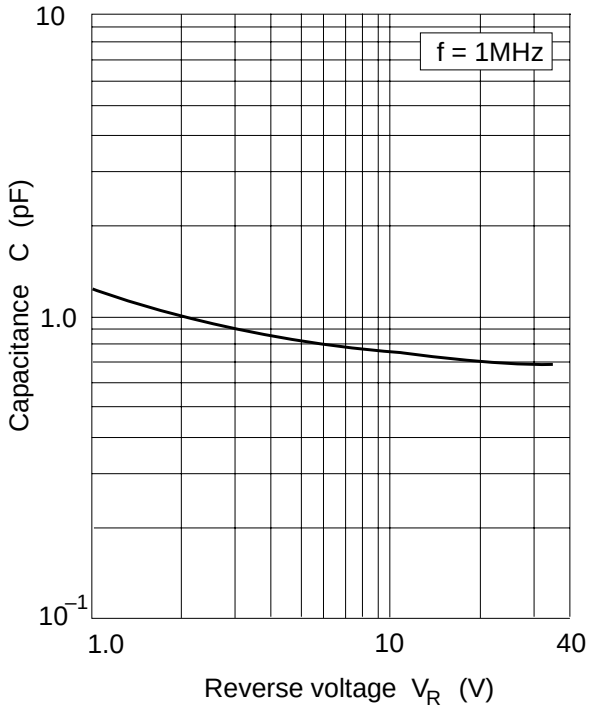


Fig.2 Capacitance Vs. Reverse voltage

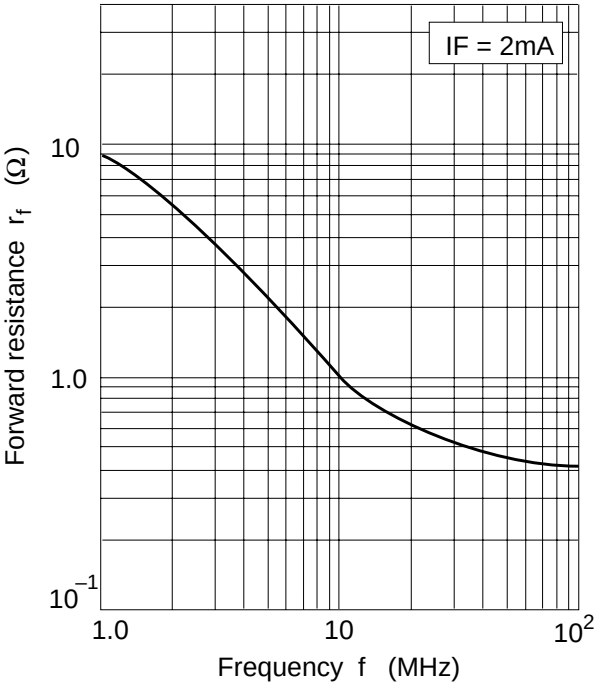
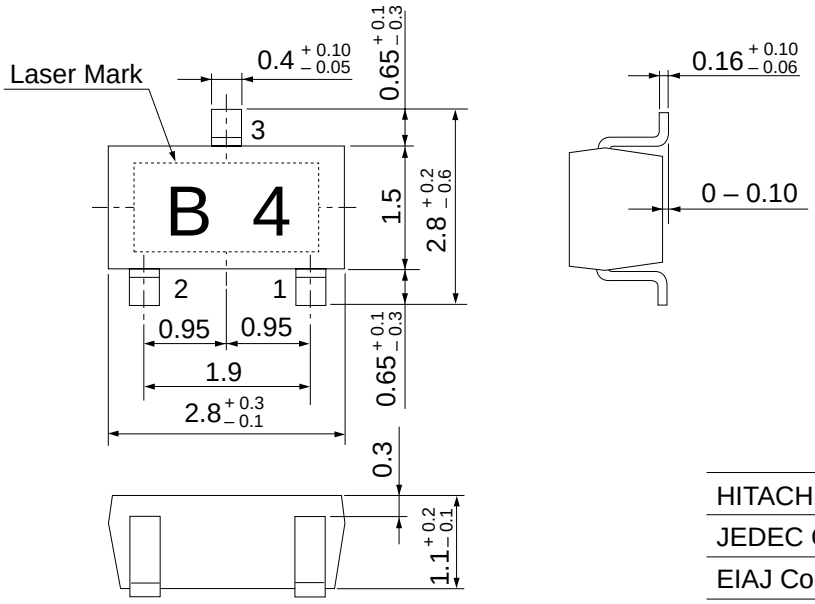


Fig.3 Forward resistance Vs. Frequency

Package Dimensions

Unit: mm



1 Anode
2 Anode
3 Cathode

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

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