

## HSM2694

### Silicon Epitaxial Planar Diode for Tuner Band Switch

REJ03G0110-0200Z  
(Previous: ADE-208-095A)  
Rev.2.00  
Oct.08.2003

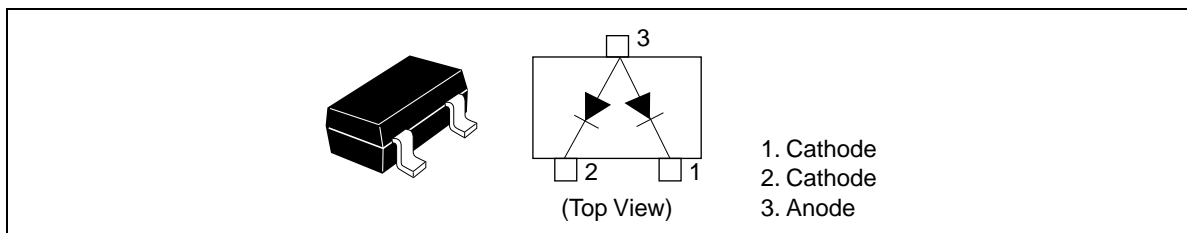
#### Features

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

#### Ordering Information

Type No.	Laser Mark	Package Code
HSM2694	B3	MPAK

#### Pin Arrangement



**Absolute Maximum Ratings**

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	35	V
Power dissipation	$P_d$ *1	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: 1. Two device total

**Electrical Characteristics \*1**

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

Note: 1. Per one device

Main Characteristic

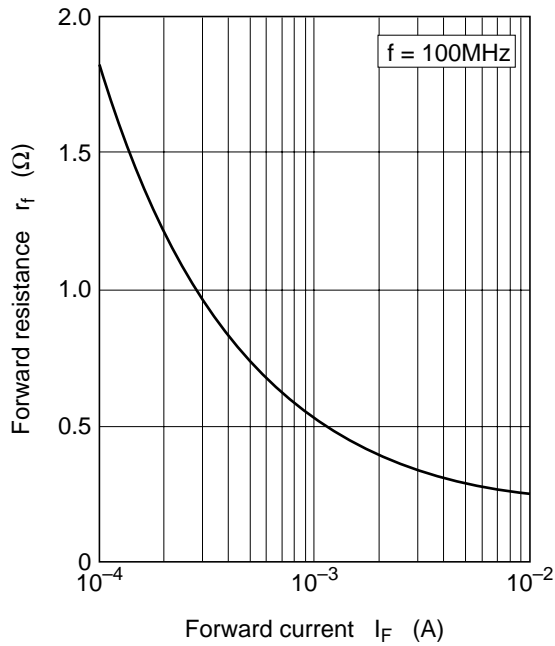


Fig.1 Forward resistance vs. Forward current

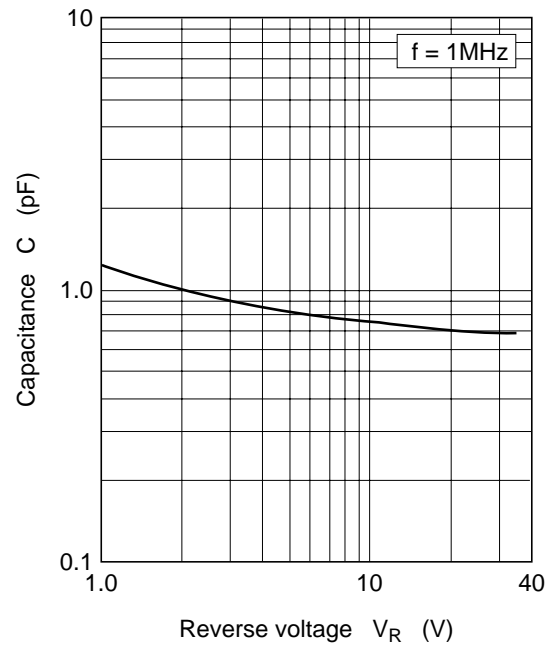


Fig.2 Capacitance vs. Reverse voltage

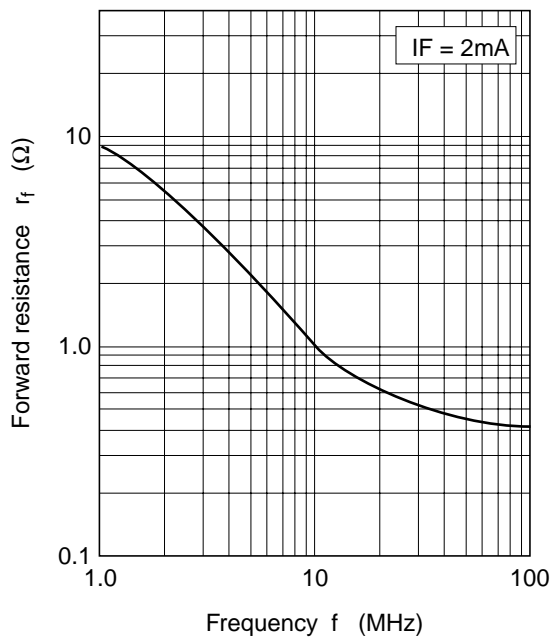
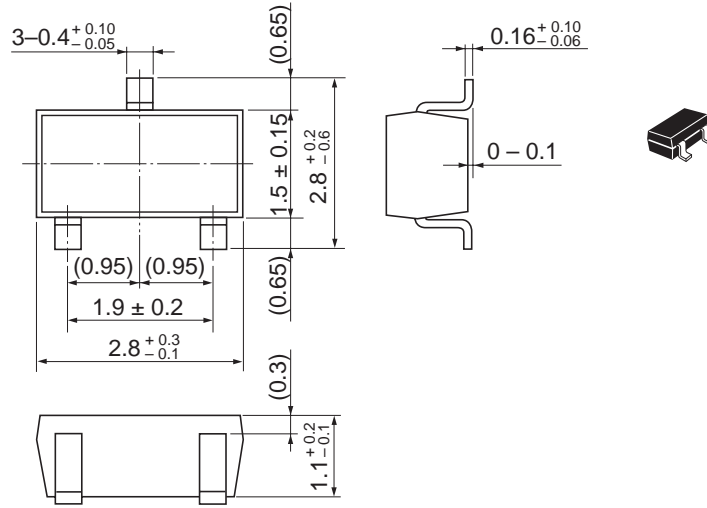


Fig.3 Forward resistance vs. Frequency

Package Dimensions

As of January, 2003  
Unit: mm



Package Code	MPAK
JEDEC	—
JEITA	Conforms
Mass (reference value)	0.011 g

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