# **HVM189S**

Silicon Epitaxial Planar Pin Diode for High Frequency Attenuator

# **HITACHI**

ADE-208-1502 (Z)

Rev.0 Feb. 2002

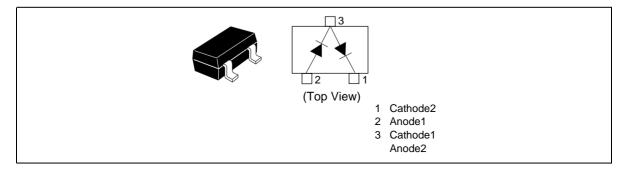
### **Features**

- Low series resistance. (rf = 5.5 max)
- MPAK package is suitable for high density surface mounting and high speed assembly.

## **Ordering Information**

Type No.	Laser Mark	Package Code
HVM189S	H9	MPAK

## **Pin Arrangement**





## **HVM189S**

## **Absolute Maximum Ratings**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol Value		Unit	
Reverse voltage	$V_{_{R}}$	60	V	
Forward current	I <sub>F</sub>	50	mA	
Power dissipation	Pd *1	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	−55 to +125	°C	

Note: 1. Per one device.

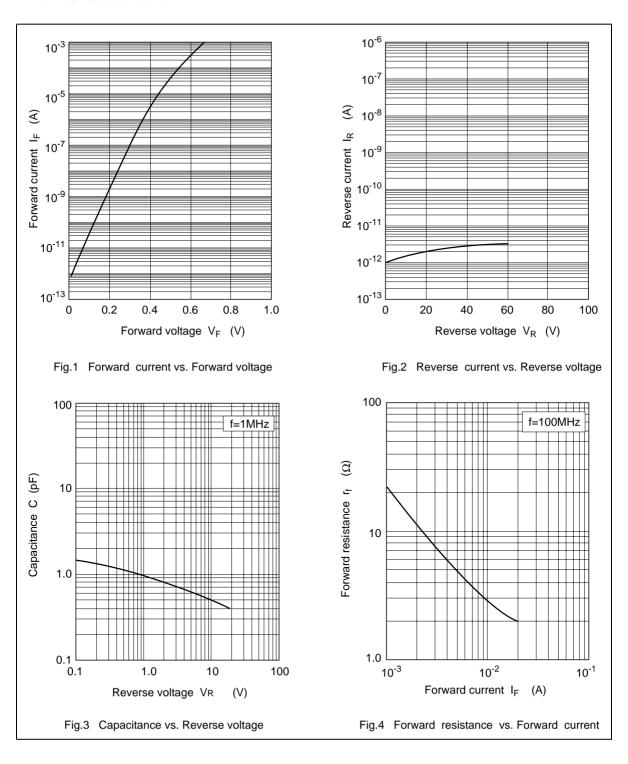
### **Electrical Characteristics**

 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R</sub>	_	_	100	nA	V <sub>R</sub> = 60 V
Forward voltage	V <sub>F</sub>	_	_	1.0	V	I <sub>F</sub> = 10 mA
Capacitance	С	1.4	_	1.8	рF	$V_R = 0 \text{ V, f} = 1 \text{ MHz}$
Forward resistance	r <sub>f</sub>	_		5.5	Ω	I <sub>F</sub> = 10 mA, f = 100 MHz
ESD-Capability *1	_	200	_	_	V	C= 200 pF, R= 0 $\Omega$ , Both forward and reverse direction 1 pulse.

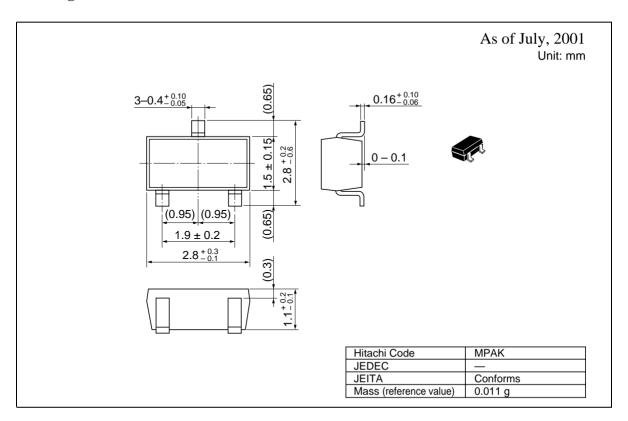
Note: 1. Failure criterion;  $I_R \ge 100 \text{ nA}$  at  $V_R = 60 \text{ V}$ .

### Main Characteristic



## **HVM189S**

## **Package Dimensions**



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