

HVM187WK

Silicon Epitaxial Planar PIN Diode for High Frequency Attenuator

HITACHI

ADE-208-056E (Z)

Rev. 5

Jun. 1993

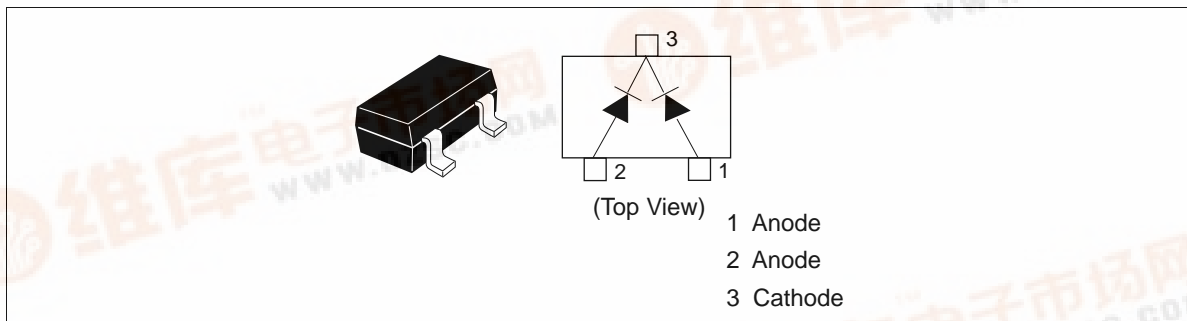
Features

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

Ordering Information

Type No.	Laser Mark	Package Code
HVM187WK	H1	MPAK

Pin Arrangement



HVM187WK

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	60	V
Forward current	I_F	50	mA
Power dissipation	Pd^*	100	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Note: Per one device

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	1.0	V	$I_F = 10\text{mA}$
Reverse current	I_R	—	—	100	nA	$V_R = 60\text{V}$
Capacitance	C	—	—	2.4	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Forward resistance	r_f	3.5	—	5.5	Ω	$I_F = 10\text{mA}, f = 100\text{MHz}$
ESD-Capability	—	200	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse.

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

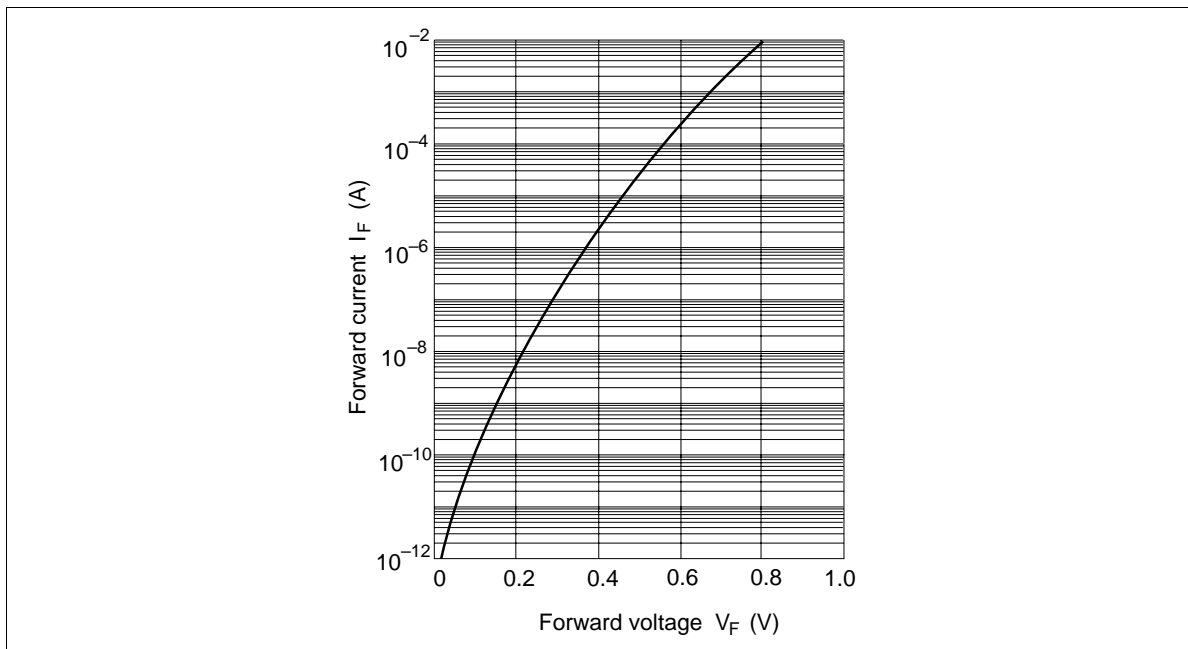


Fig.1 Forward current Vs. Forward voltage

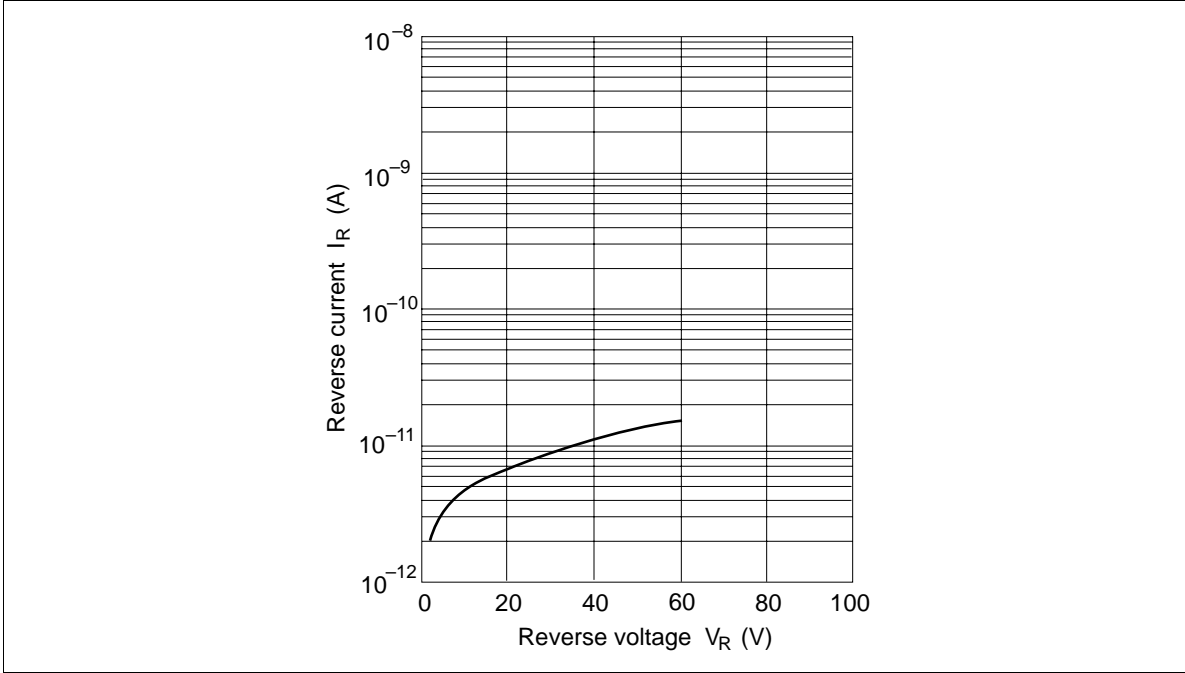


Fig.2 Reverse current Vs. Reverse voltage

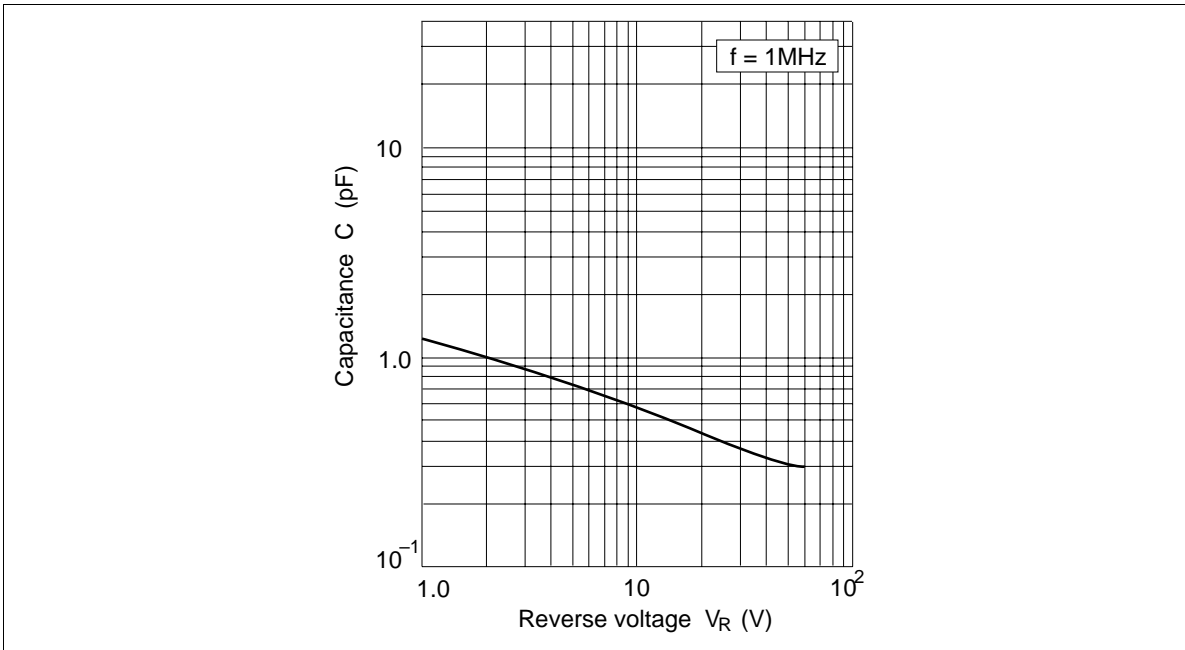


Fig.3 Capacitance Vs. Reverse voltage

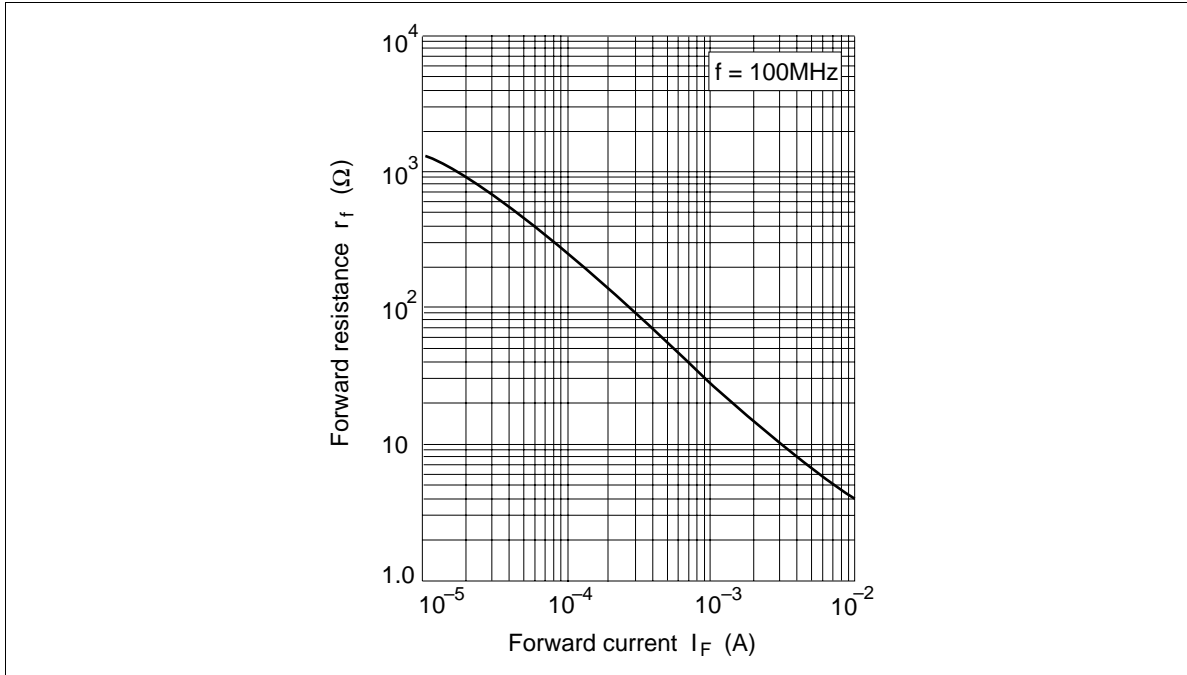
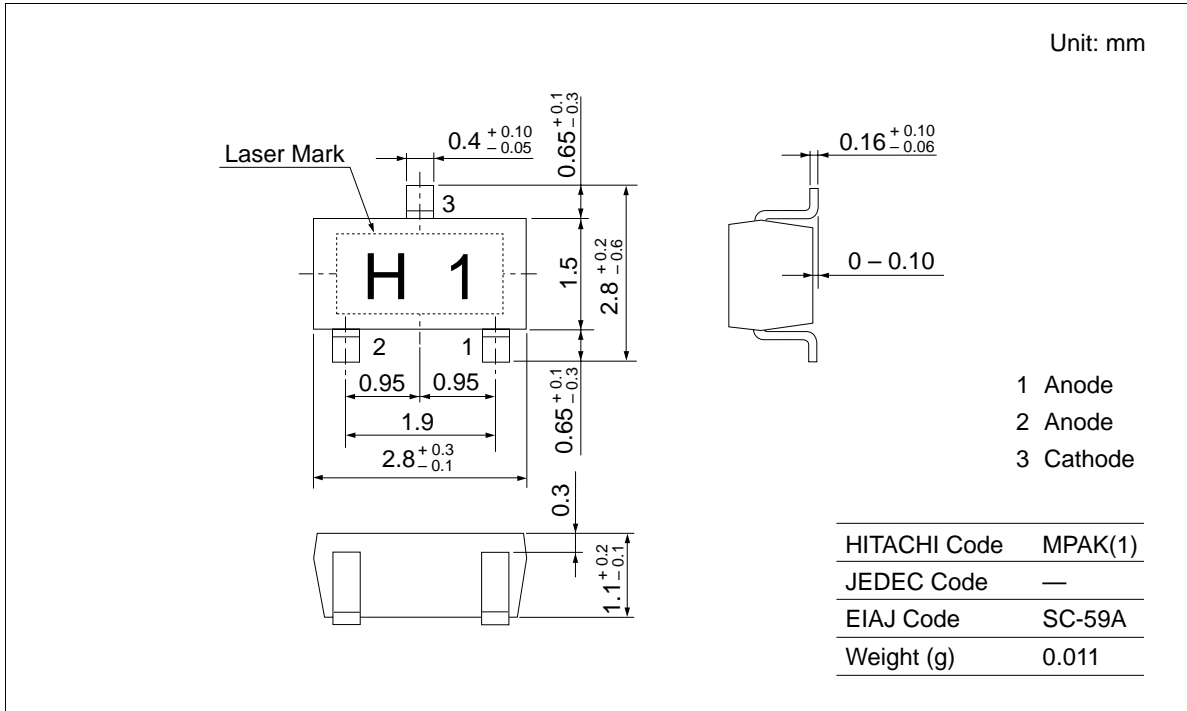


Fig.4 Forward resistance Vs. Forward current

Package Dimensions



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