
HVM11

Variable Capacitance Diode for BS/CS tuner

HITACHI

ADE-208-081A (Z)

Preliminary

Rev. 1

May. 1993

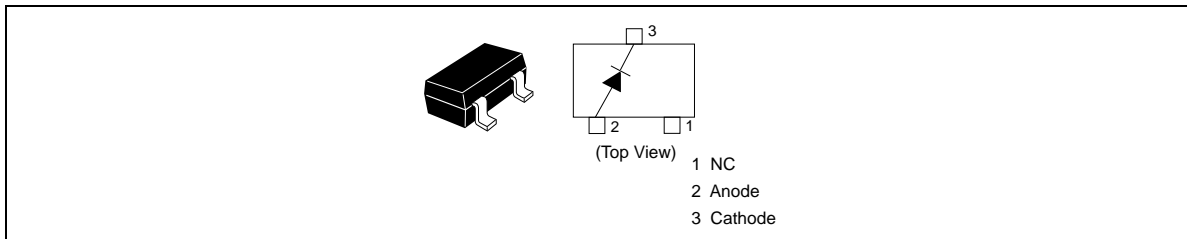
Features

- Low capacitance, high S/N.
- MPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HVM11	T4	MPAK

Pin Arrangement



Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Reverse voltage	V_R	35	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

HVM11

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	35	—	—	V	$I_R = 10\mu\text{A}$
Reverse current	I_R	—	—	50	nA	$V_R = 30\text{V}$
Capacitance	C_1	3.6	—	5.6	pF	$V_R = 1\text{V}, f = 1\text{MHz}$
	C_{30}	0.5	—	0.9		$V_R = 30\text{V}, f = 1\text{MHz}$
Capacitance ratio	n	4.0	—	—	—	C_1/C_{30}
Series resistance	r_s	—	—	1.5	Ω	$V_R = 2\text{V}, f = 100\text{MHz}$

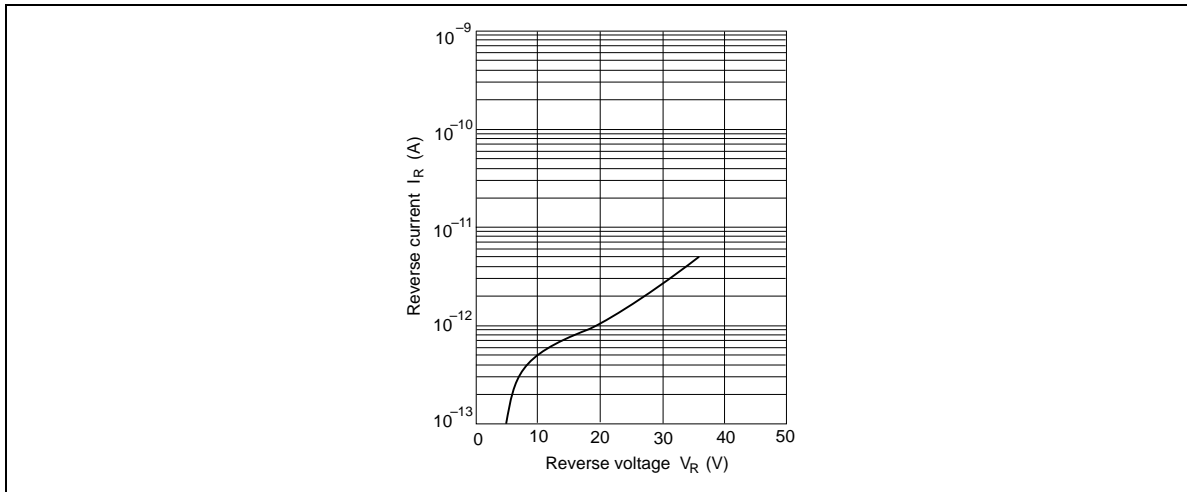


Fig.1 Reverse current Vs. Reverse voltage

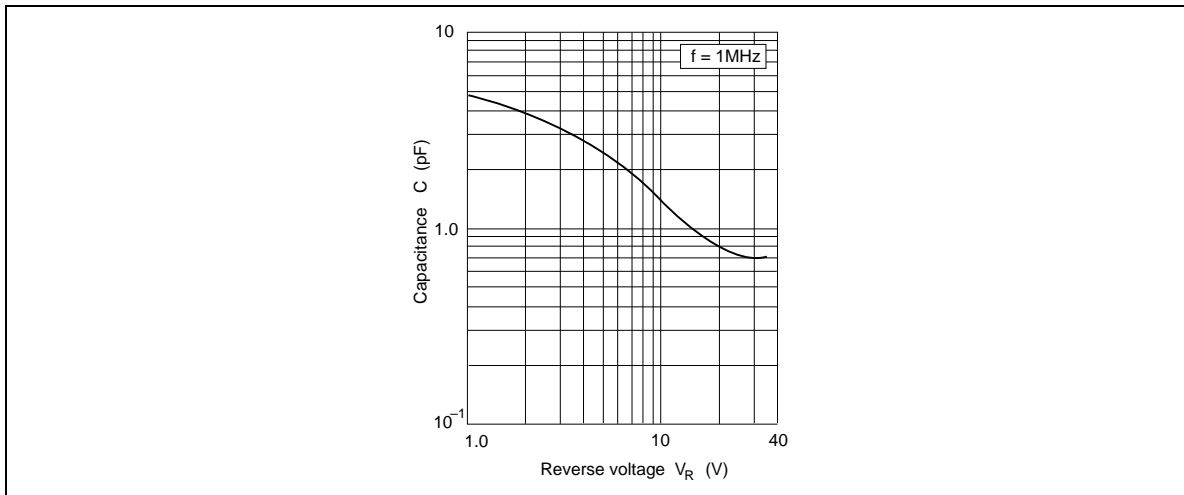


Fig.2 Capacitance Vs. Reverse voltage

Package Dimensions

