

# HVM16

Variable Capacitance Diode for FM tuner

# HITACHI

ADE-208-086D (Z)

Rev.4

Feb. 1999

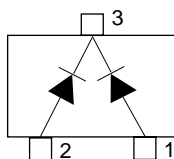
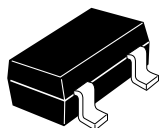
## Features

- Worked by 8V, suitable for small manufacture sources of electric power.
- MPAK package is suitable for high density surface mounting and high speed assembly.

## Ordering Information

Type No.	Laser Mark	Package Code
HVM16	T3	MPAK

## Outline



(Top View)

- 1 Anode
- 2 Anode
- 3 Cathode

## Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	$V_R$	14	V
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-45 to +125	°C

## Electrical Characteristics (Ta = 25°C) \*1

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	$V_R$	14	—	—	V	$I_R = 10\mu A$
Reverse current	$I_R$	—	—	50	nA	$V_R = 9V$
Capacitance	$C_2$	43.0	—	48.1	pF	$V_R = 2V, f = 1\text{ MHz}$
	$C_8$	24.6	—	29.2		$V_R = 8V, f = 1\text{ MHz}$
Capacitance ratio	n	16.5	—	1.75	—	$C_2 / C_8$
Figure of merit	Q	75	—	—	—	$V_R = 2V, f = 100\text{ MHz}$

Notes 1. Per one device.

Main Characteristic

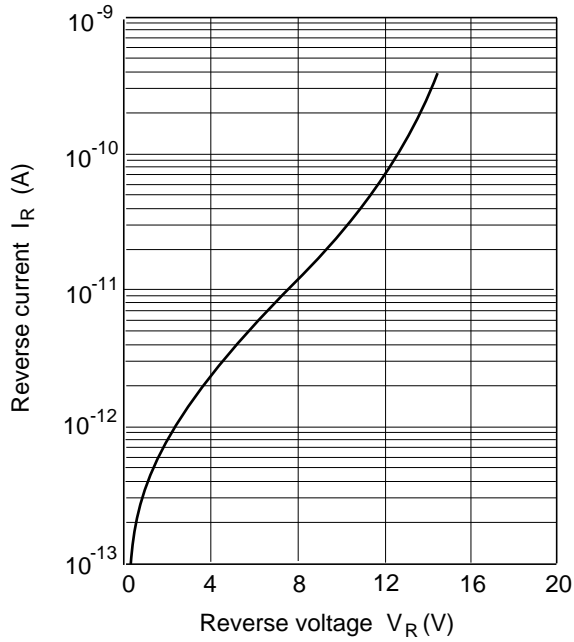


Fig.1 Reverse current Vs. Reverse voltage

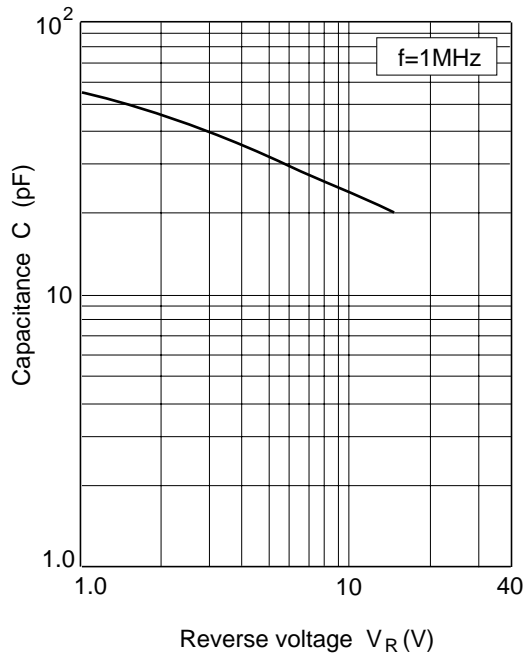
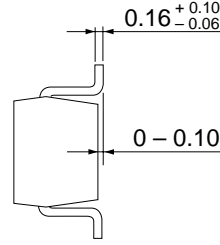
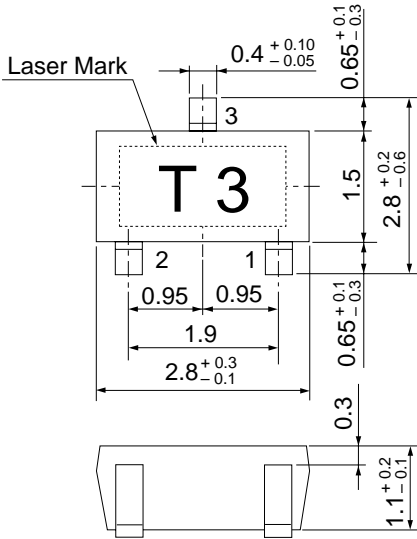


Fig.2 Capacitance Vs. Reverse voltage

## Package Dimensions

Unit : mm



- 1 Anode
- 2 Anode
- 3 Cathode

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

## Cautions

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