ADE-208-086C(Z)

HVM16
Variable Capacitance Diode for FM tuner

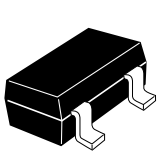
HITACHI

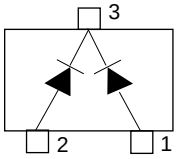
Preliminary
Rev. 3
May. 1993

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.

Pin Arrangement





(Top View)

1 Anode
2 Anode
3 Cathode

Ordering Information

Type No.	Laser Mark	Package Code
HVM16	T 3	MPAK

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	14	V
Power dissipation	P_d	150	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse voltage	V_R	14.0	—	—	V	I_R = 10 µA
Reverse current	I_R	—	—	50.0	nA	V_R = 9 V
Capacitance	C	43.0	—	48.1	pF	V_R = 2 V , f = 1 MHz
Capacitance ratio	n_1	1.23	—	1.33	—	C_2/C_4
	n_2	1.65	—	1.75		C_2/C_8
Figure of merit	Q	75	—	—	—	V_R = 2 V , f = 100 MHz

HVM16

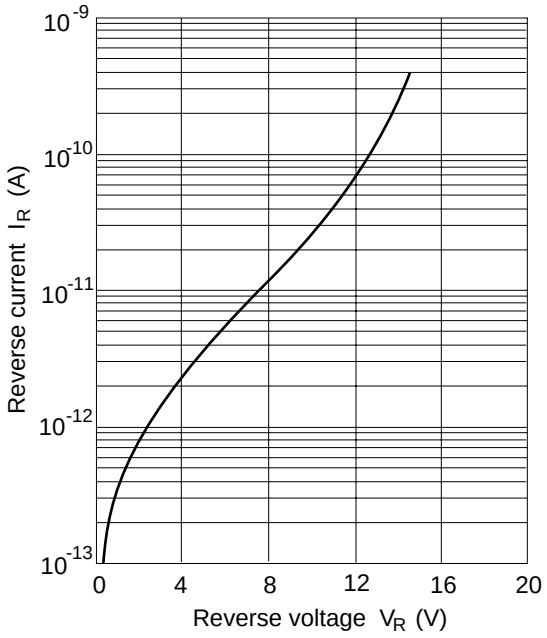


Fig.1 Reverse current Vs. Reverse voltage

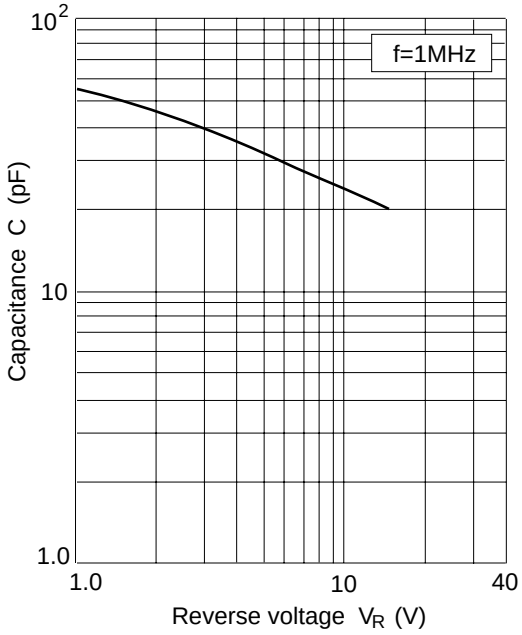
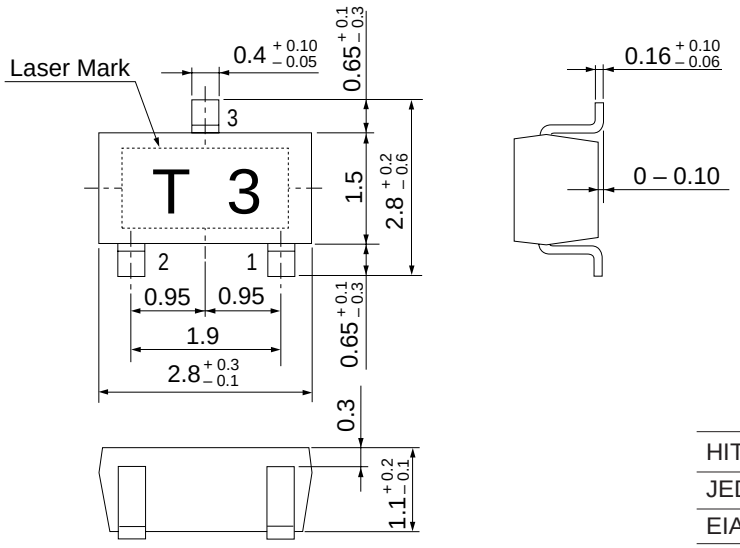


Fig.2 Capacitance Vs. Reverse voltage

Package Dimensions

Unit: mm



1 Anode
2 Anode
3 Cathode

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