
HVC366

Variable Capacitance Diode for VCO

HITACHI

ADE-208-592 (Z)
Rev 0

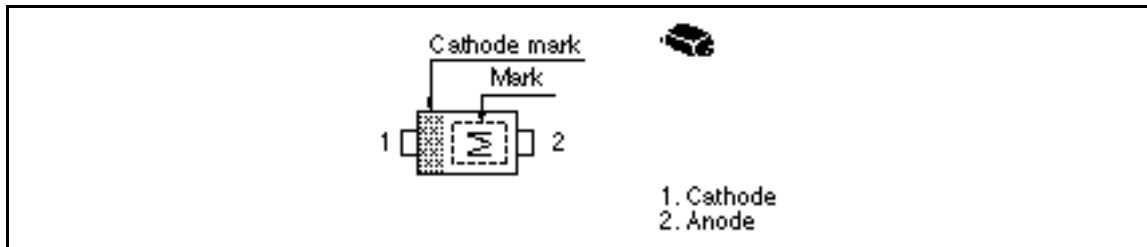
Features

- Σ Low series resistance. ($r_s = 0.60 \text{ Wmax}$)
- Σ Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC366	M	UFP

Outline



HVC366

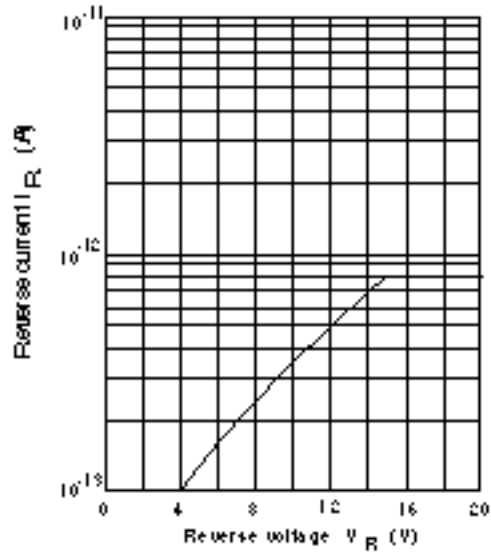
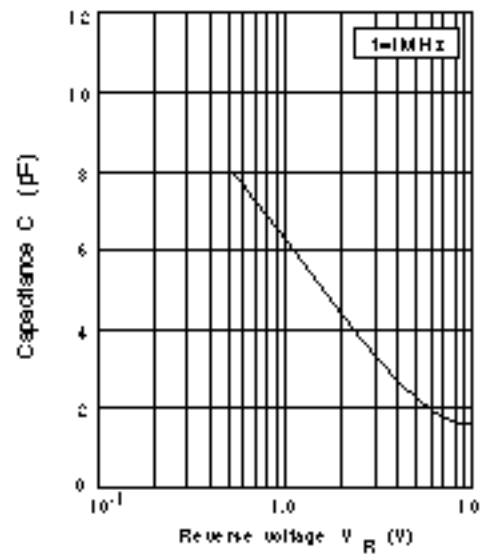
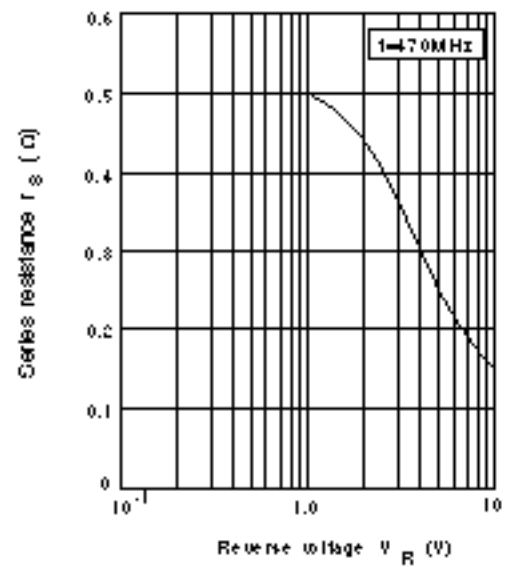
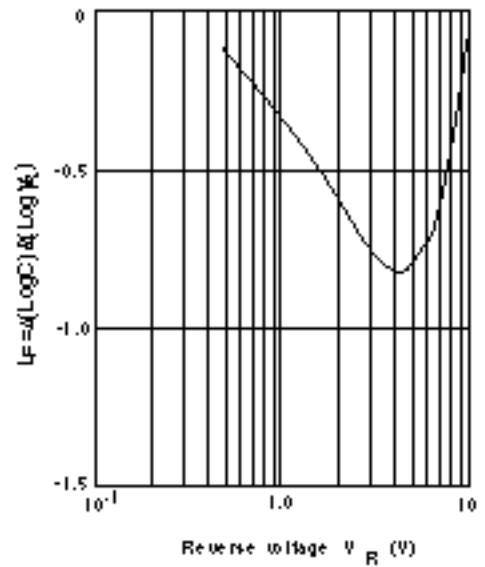
Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
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 current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	100		$V_R = 15\text{ V}$, $T_a = 60^\circ\text{C}$
Capacitance	C_1	6.30	—	6.80	pF	$V_R = 1\text{ V}$, $f = 1\text{ MHz}$
	C_2	4.35	—	4.95		$V_R = 2\text{ V}$, $f = 1\text{ MHz}$
Capacitance ratio	n	1.390	—	—	—	C_1 / C_2
Series resistance	r_s	—	—	0.60	W	$V_R = 1\text{ V}$, $f = 470\text{ MHz}$

Main Characteristic

Fig.1 Reverse current I_R vs. Reverse voltageFig.2 Capacitance C vs. Reverse voltageFig.3 Series resistance r_s vs. Reverse voltageFig.4 Linearity factor LF vs. Reverse voltage

HVC366

Package Dimensions

Unit : mm

