
HVD355B

Variable Capacitance Diode for VCO

HITACHI

ADE-208-950 (Z)

Rev. 0
Jun. 2000

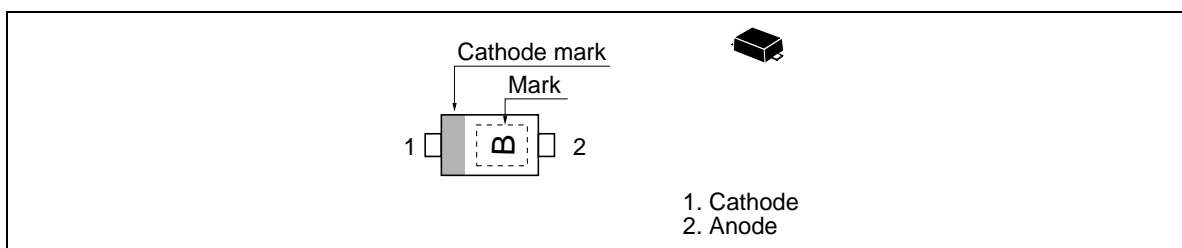
Features

- High capacitance ratio. ($n = 2.20$ min)
- Low series resistance. ($r_s = 0.6 \Omega$ max)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD355B	B	SFP

Outline



HVD355B

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

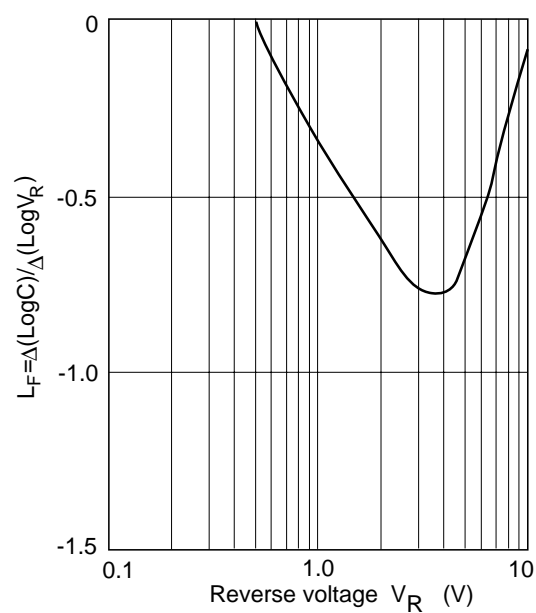
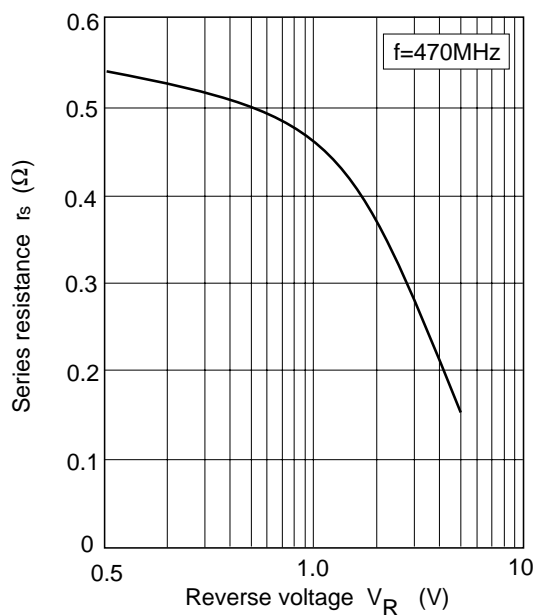
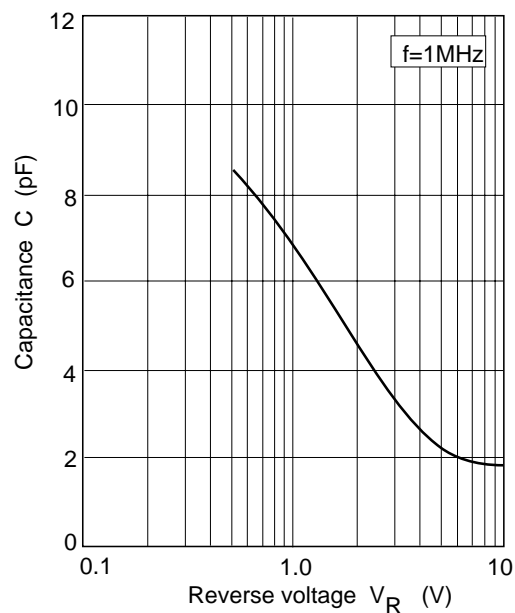
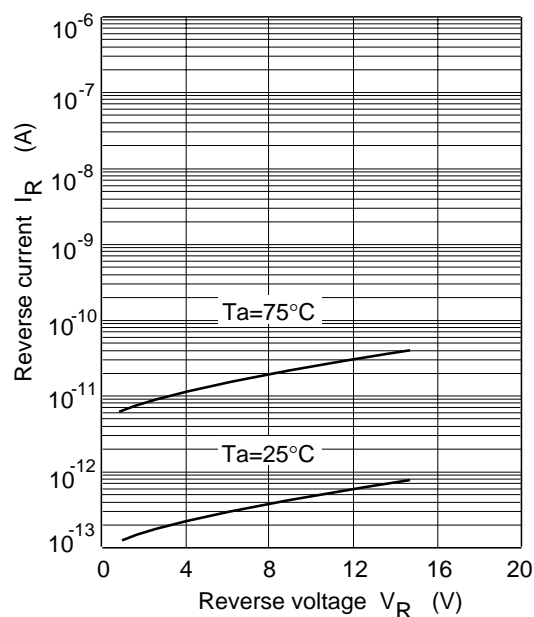
Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15V$
	I_{R2}	—	—	100		$V_R = 15 V, T_a = 60^\circ C$
Capacitance	C_1	6.40	—	7.20	pF	$V_R = 1 V, f = 1 MHz$
	C_4	2.55	—	2.95		$V_R = 4V, f = 1 MHz$
Capacitance ratio	n	2.20	—	—	—	C_1 / C_4
Series resistance	r_s	—	—	0.6	Ω	$V_R = 1 V, f = 470 MHz$

Note: Please do not use the soldering iron due to avoid high stress to the SFP package.

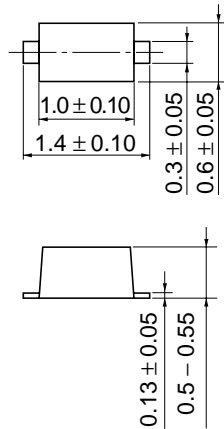
Main Characteristic



HVD355B

Package Dimensions

Unit: mm



Hitachi Code	SFP
JEDEC	—
EIAJ	—
Mass (reference value)	0.0010 g

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