HVC374B

Variable Capacitance Diode for VCO

HITACHI

ADJ-208-621(Z) Rev 0 Jun. 1998

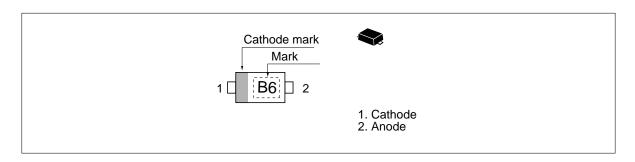
Features

- High capacitance ratio and good C-V linearity.
- To be usable at low voltage.
- <u>U</u>ltra small <u>F</u>lat <u>P</u>ackage (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC374B	B6	UFP

Outline



HVC374B

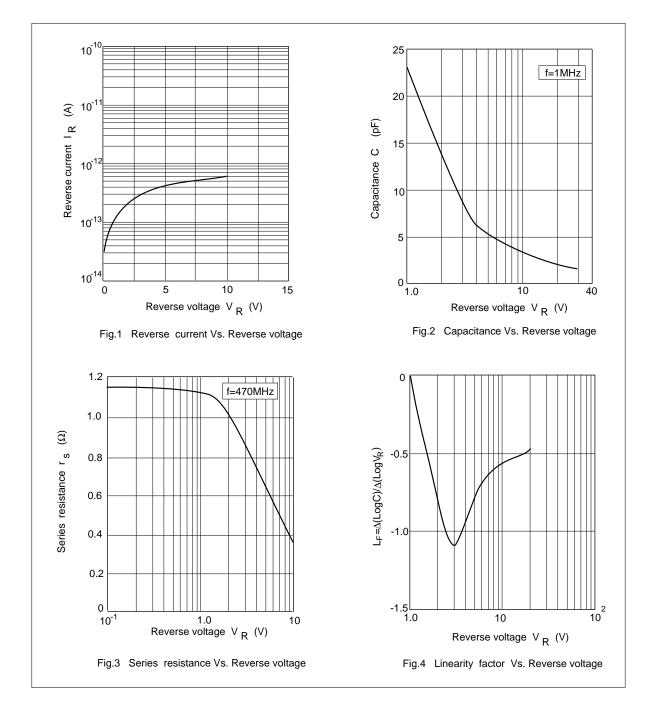
Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Value	Unit
Reverse voltage	V_R	10	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25° C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	$V_R = 10V$
	I _{R2}	_	_	100		V _R = 10V, Ta = 60 °C
Capacitance	C ₁	21.5	_	24.0	pF	$V_R = 1V, f = 1 MHz$
	C ₂	12.5	_	14.5		$V_R = 2V, f = 1 MHz$
Capacitance ratio	n	1.68	_	1.75	_	C ₁ / C ₂
Series resistance	r _s	_	_	1.2	Ω	V _R = 1V, f = 470 MHz

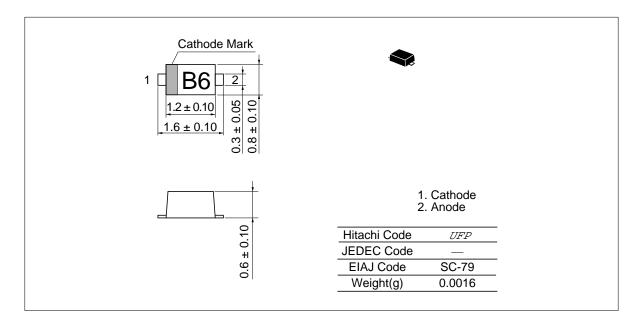
Main Characteristic



HVC374B

Package Dimensions

Unit: mm



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