HVC300B

Variable Capacitance Diode for VHF tuner

HITACHI

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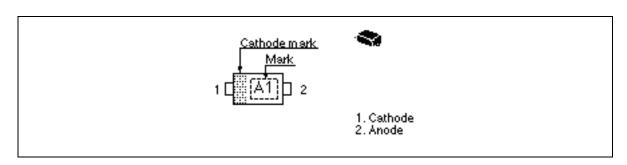
Features

- Low matching error. (ÆC/C =2.0% max)
- High capacitance ratio. (n =17.0min)
- Low series resistance. (rs=1.1½max)
- <u>Ultra small Flat Package (UFP)</u> is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC300B	A1	UFP

Outline





HVC300B

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

Item	Symbol	Value	Unit
Peak reverse voltage	V _{RM} *1	35	V
Reverse voltage	V _R	34	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Note 1. RL=10K½

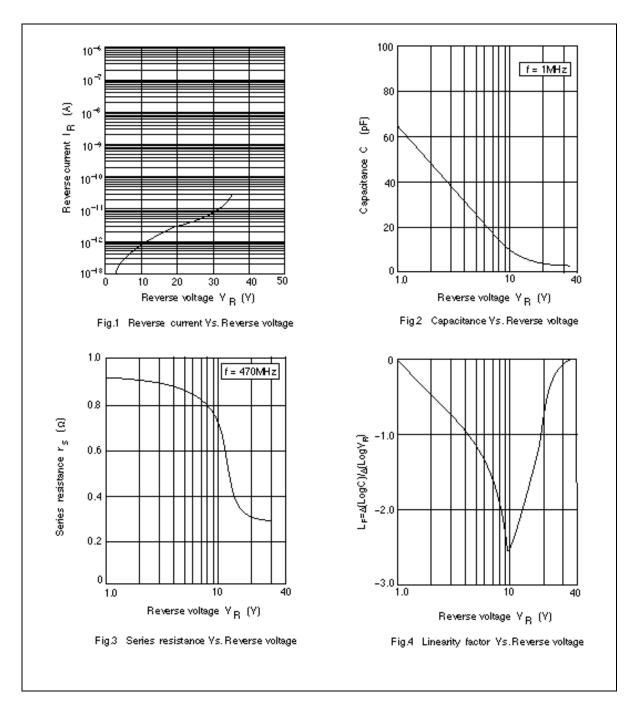
Electrical Characteristics ($Ta = 25^{\circ}C$)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 32V
	I _{R2}	_	_	100		V _R = 32V, Ta= 60°C
Capacitance	C ₂	47.0	_	53.0	pF	V _R = 2V, f = 1MHz
	C ₂₅	2.65	_	3.0		$V_R = 25V$, $f = 1MHz$
Capacitance ratio	n	17.0	_	_		C ₂ /C ₂₅
Series resistance	r _S	_	_	1.1	1/2	V _R = 5V, f = 470MHz
Matching error	ÆC/C*1	_	_	2.0	%	V _R = 2 to 25V, f = 1 MHz

Note 1. C.C system (Continuous Connected taping system) enable to make any 10 pcs of ΔC/C continuous in a reel , expect extention to another group.

Calculate Matching Error,

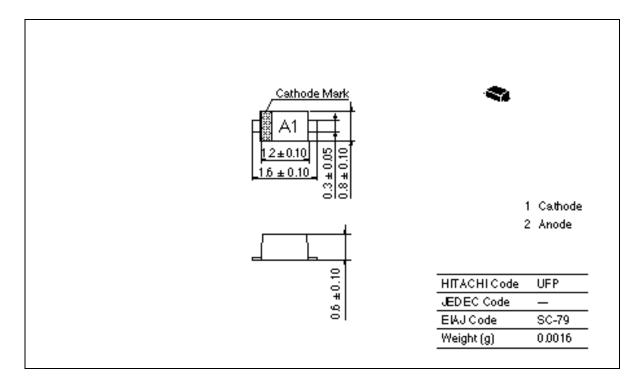
Main Characteristic



HVC300B

Package Dimensions

Unit: mm



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