HVC308A

Variable Capacitance Diode for TV tuner

HITACHI

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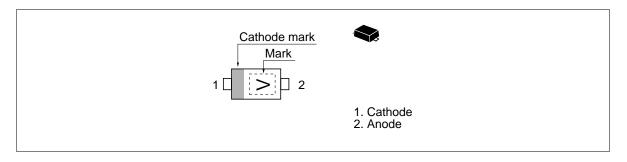
Features

- Low series resistance. (rs= 0.95Ω max)
- Ultra small Flat Package (UFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVC308A	V	UFP

Outline





HVC308A

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit	
Reverse voltage	V _R	35	V	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	$V_R = 30V$
	I _{R2}	_	_	100		V _R = 30V, Ta = 60 °C
Capacitance	C ₂	13.7	_	15.9	pF	V _R = 2V, f = 1 MHz
	C ₂₀	1.65	_	2.06		V _R = 20V, f = 1 MHz
Capacitance ratio	n	7.12	_		_	C ₂ / C ₂₀
Series resistance	r _s	_	_	0.95	Ω	V _R = 5V, f = 470 MHz

Main Characteristic

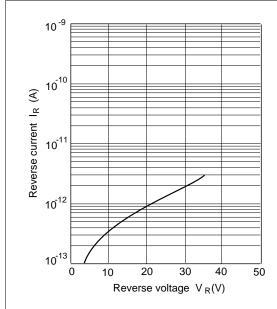


Fig.1 Reverse current Vs. Reverse voltage

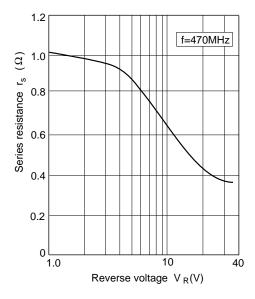


Fig.3 Series resistance Vs. Reverse voltage

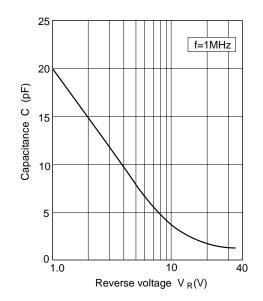


Fig.2 Capacitance Vs. Reverse voltage

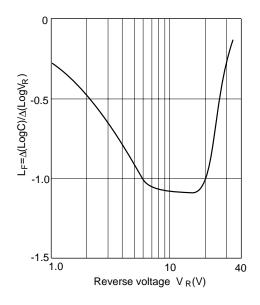
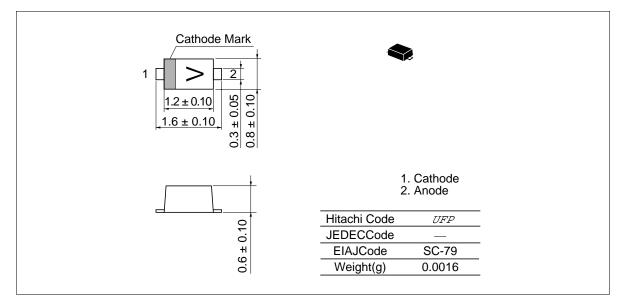


Fig.4 Linearity factor Vs. Reverse voltage

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Package Dimensions

Unit: mm



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