

HVC307

Variable Capacitance Diode for VHF tuner WWW.DZ

REJ03G0515-0100 (Previous: ADE-208-962) Rev.1.00 Feb 10, 2005

WWW.DZSC.CO

Features

- High capacitance ratio (n = 12.0 min).
- Low series resistance. (rs = 0.85Ω max).
- Ultra small Flat Lead Package (UFP) is suitable for surface mount design. •

Type No.	Laser Mark	Renesas Code	Previous Code
HVC307	7	PWSF0002ZA-A	UFP

Pin Arrangement



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Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Value	Unit
Reverse voltage	V _R	32	V
Junction temperature	Тј	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

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

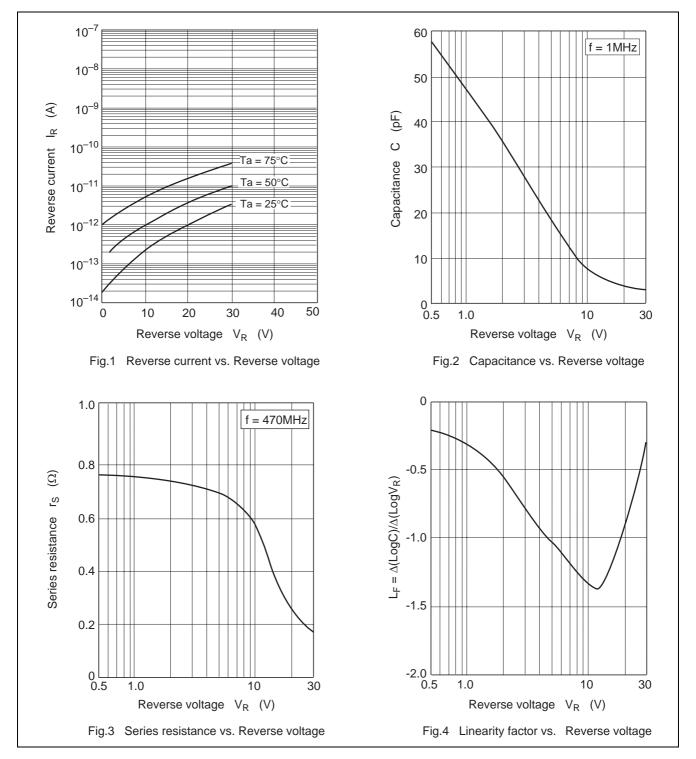
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}		_	10	nA	V _R = 30 V
	I _{R2}		_	100		V _R = 30 V, Ta = 60°C
Capacitance	C ₂	32.2	_	37.5	pF	V _R = 2 V, f = 1 MHz
	C ₂₅	2.57	_	3.00		V _R = 25V, f = 1 MHz
Capacitance ratio	n	12.0	12.5	_	—	C ₂ / C ₂₅
Series resistance	r _S		_	0.85	Ω	V _R = 5 V, f = 470 MHz
Matching error	∆C/C * ¹		_	2.00	%	V _R = 2 to 25 V, f = 1 MHz

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

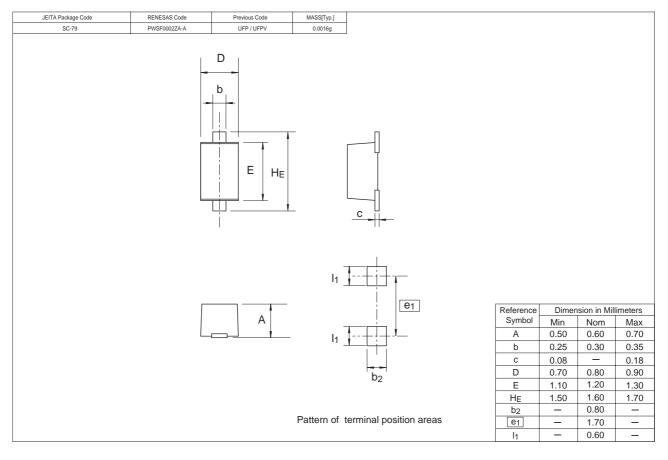
Calculate Matching Error,

 $\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100 \ (\%)$

Main Characteristic



Package Dimensions



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