HVU306C

Variable Capacitance Diode for VHF tuner

HITACHI

ADE-208-1601 (Z)

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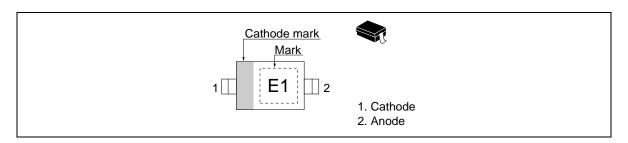
Features

- High capacitance ratio (n = 11.0min).
- Low series resistance and good C-V linearity.
- <u>U</u>ltra small <u>Resin Package</u> (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code		
HVU306C	E1	URP		

Pin Arrangement





HVU306C

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	34	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics

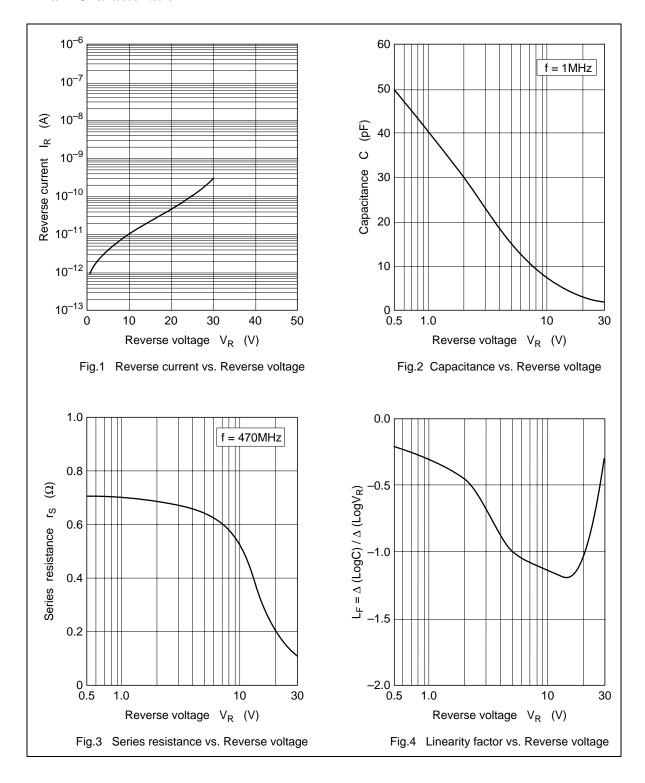
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 32 V
	I _{R2}	_	_	100		V _R = 32 V, Ta= 60°C
Capacitance	C ₂	29.5	_	34.0	pF	V _R = 2 V, f = 1 MHz
	C ₂₅	2.57	_	2.90		V _R = 25 V, f = 1 MHz
Capacitance ratio	n	11.0	_	_	_	C ₂ /C ₂₅
Series resistance	r _s	_	_	0.75	Ω	V _R = 5 V, f = 470 MHz
Matching error	$\Delta C/C^{*1}$	_	_	2.0	%	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 $\Delta C/C$ continuous in a reel, expect extention to another group. Calculate Matching Error,

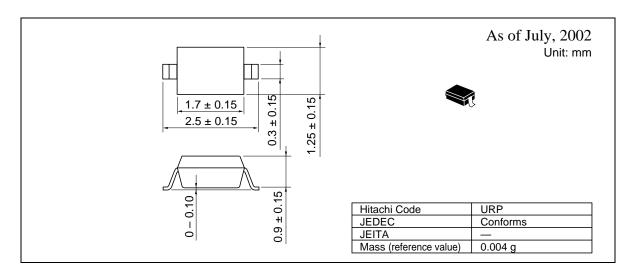
$$\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100 \text{ (\%)}$$

Main Characteristic



HVU306C

Package Dimensions



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