

HVU327C

Variable Capacitance Diode for VHF tuner

REJ03G0215-0100Z Rev.1.00 Apr 16, 2004

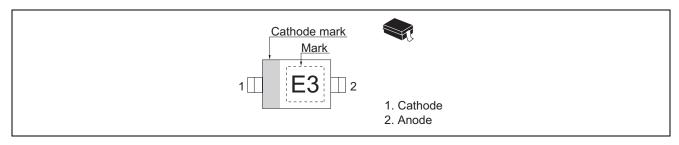
Features

- Low voltage type (tuning voltage 1 to 10V), it is suitable for ET without DC/DC converter.
- High capacitance ratio (n = 11.0 min).
- Low series resistance and good C-V linearity.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU327C	E3	URP

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	_
Reverse voltage	V_{R}	15	V	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

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

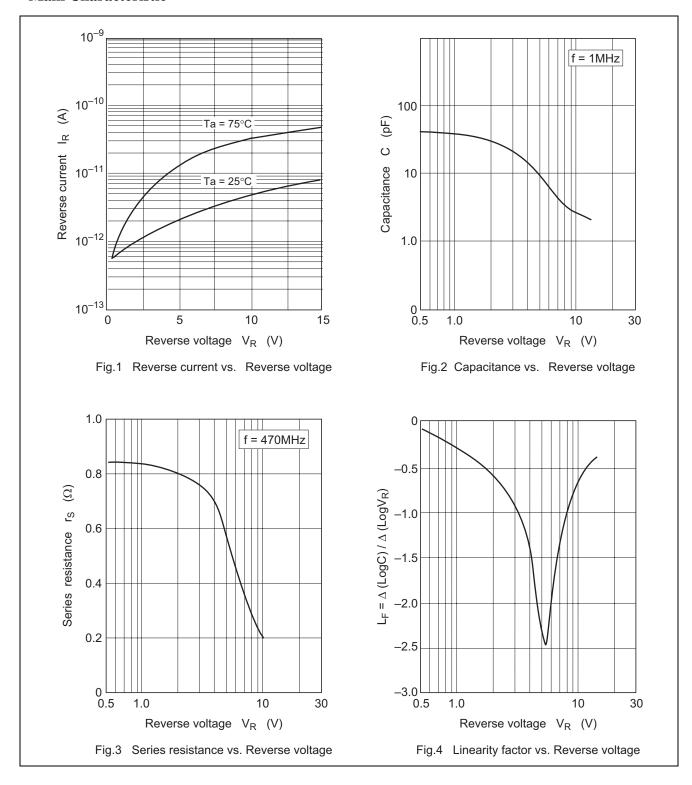
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 10 V
	I _{R2}	_	_	100		V _R = 10 V, Ta= 60°C
Capacitance	C ₁	30.5	_	33.5	pF	V _R = 1 V, f = 1 MHz
	C ₁₀	2.6	_	2.9		V _R = 10 V, f = 1 MHz
Capacitance ratio	n	11.0	_	_	_	C ₁ /C ₁₀
Series resistance	rs	_	_	0.8	Ω	V _R = 5 V, f = 470 MHz
Matching error	ΔC/C *1	_	_	2.0	%	V _R = 1 to 10 V, 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.

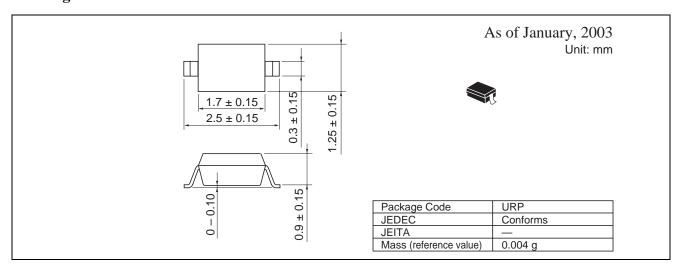
Calculate Matching Error,

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

Main Characteristic



Package Dimensions



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Renesas Technology Europe Limited.

Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, United Kingdom Tel: <44> (1628) 585 100, Fax: <44> (1628) 585 900

Renesas Technology Europe GmbHDornacher Str. 3, D-85622 Feldkirchen, Germany
Tel: <49> (89) 380 70 0, Fax: <49> (89) 929 30 11

Renesas Technology Hong Kong Ltd. 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2375-6836

Renesas Technology Taiwan Co., Ltd. FL 10, #99, Fu-Hsing N. Rd., Taipei, Taiwan Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd. 26/F., Ruijin Building, No.205 Maoming Road (S), Shanghai 200020, China Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd. 1, Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001