

HVU200A

Variable Capacitance Diode for VHF tuner

REJ03G0103-0500Z

(Previous: ADE-208-067D)

Rev.5.00

Sep.29.2003

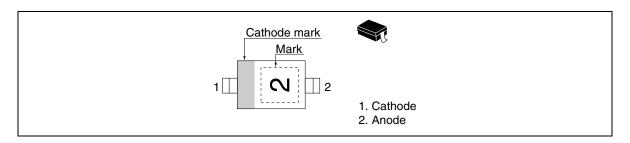
Features

- High capacitance ratio (n = 10 min) and suitable for wide band tuner.
- 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
HVU200A	2	URP

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V_{R}	32	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Electrical Characteristics

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

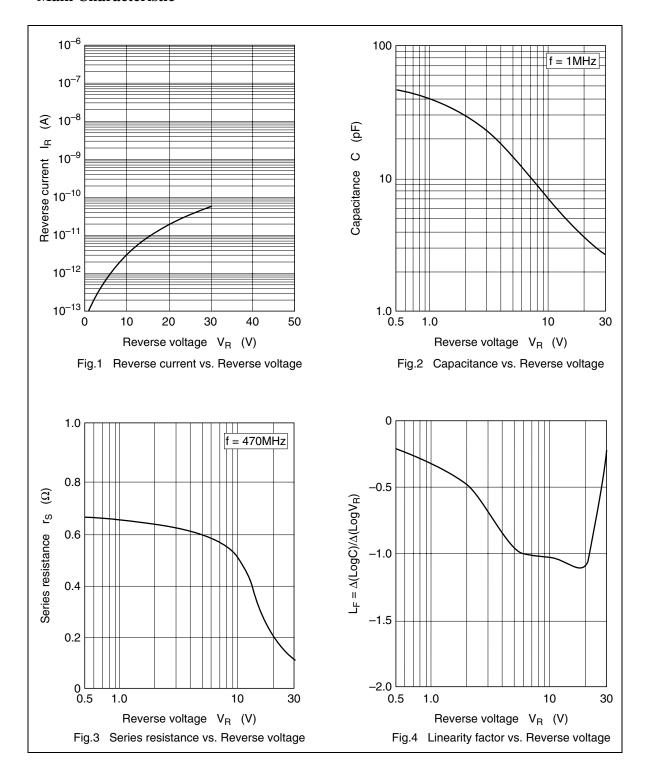
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	_	10	nA	V _R = 30 V
	I _{R2}	_	_	100	_	$V_R = 30 \text{ V}, \text{ Ta} = 60^{\circ}\text{C}$
Capacitance	C ₂	27.7	_	31.8	pF	V _R = 2 V, f = 1 MHz
	C ₂₅	2.67	_	3.03		V _R = 25 V, f = 1 MHz
Capacitance ratio	n	10.0	_	_	_	C ₂ /C ₂₅
Series resistance	r _s	_	_	0.7	Ω	V _R = 5 V, f = 470 MHz
Matching error	∆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 ΔC/C continuous in a reel, expect extention to another group.

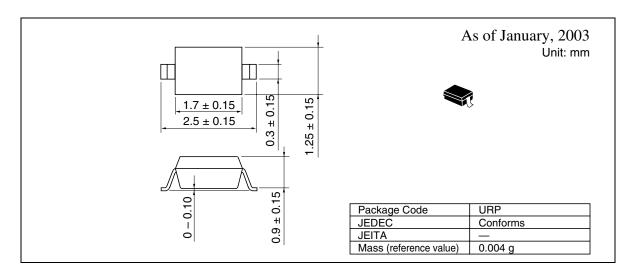
Calculate Matching Error,

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

Main Characteristic



Package Dimensions



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