HVU306A

Variable Capacitance Diode for VHF tuner

HITACHI

ADE-208-045D (Z) Rev 4 Nov. 1998

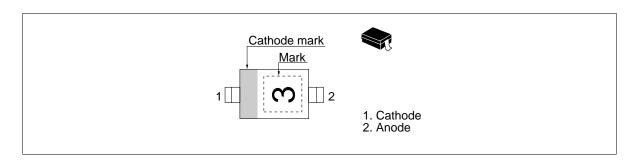
Features

- Low series resistance. (rs= 11.0Ω max)
- 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
HVU306A	3	URP

Outline





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Absolute Maximum Ratings (Ta = 25°C)

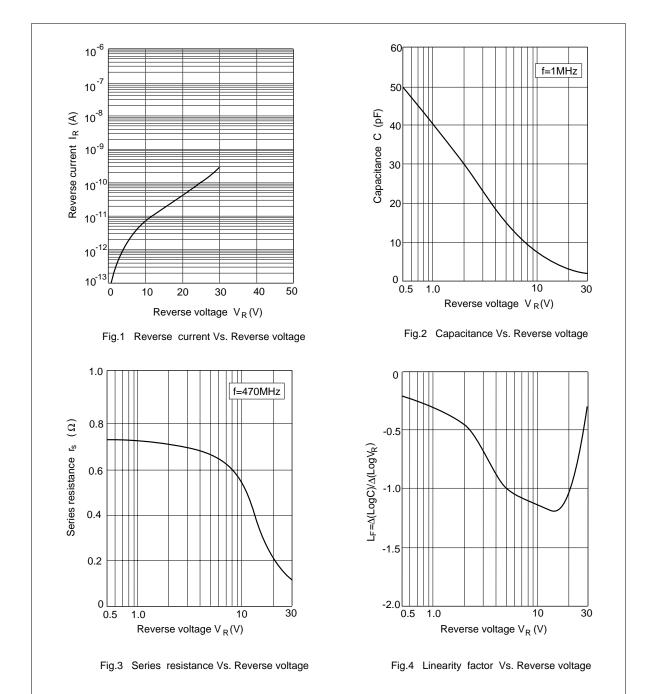
Item	Symbol	Value	Unit
Reverse voltage	V_R	32	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Electrical Characteristics (Ta = 25°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	29.3	_	34.2	pF	$V_R = 2V, f = 1MHz$
	C ₂₅	2.57	_	2.92		V _R = 25V, f = 1MHz
Capacitance ratio	n	11.0	_	_	_	C ₂ /C ₂₅
Series resistance	r _s	_	_	0.75	Ω	V _R = 5V, f = 470MHz
Matching error	$\Delta C/C^{*1}$	_	_	2.0	%	$V_R = 2$ to 25V, $f = 1$ MHz

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

Main Characteristic

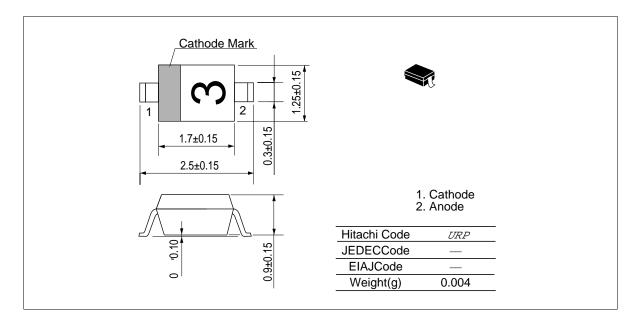


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Package Dimensions

Unit: mm



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Semiconductor & Integrated Circuits.

Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: Tokyo (03) 3270-2111 Fax: (03) 3270-5109

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For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive. San Jose, CA 95134 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223 Hitachi Europe GmbH Electronic components Group D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0

Fax: <49> (89) 9 29 30 00 Hitachi Europe Ltd. Electronic Components Group. Whitebrook Park

Maidenhead Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 778322

Lower Cookham Road

Hitachi Asia Pte. Ltd. 16 Collyer Quay #20-00 Hitachi Tower Singapore 049318 Tel: 535-2100 Fax: 535-1533

Hitachi Asia Ltd. Taipei Branch Office 3F, Hung Kuo Building. No.167, Tun-Hwa North Road, Taipei (105) Tel: <886> (2) 2718-3666 Fax: <886> (2) 2718-8180

Hitachi Asia (Hong Kong) Ltd. Group III (Electronic Components) 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong Tel: <852> (2) 735 9218 Fax: <852> (2) 730 0281

Telex: 40815 HITEC HX

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