HVU132

Silicon Epitaxial Planar Pin Diode for High Frequency Switching

HITACHI

ADE-208-321B(Z) Rev. 2 Feb. 2000

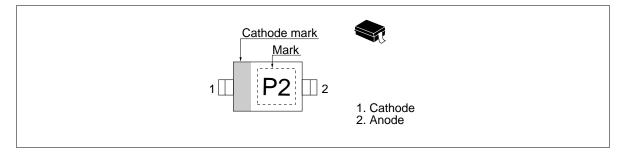
Features

- Low capacitance.(C=0.5pF max)
- Low forward resistance. (rf= 2.0Ω max)
- <u>U</u>ltra small <u>Resin Package</u> (URP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVU132	P2	URP

Outline





HVU132

Absolute Maximum Ratings (Ta = 25° C)

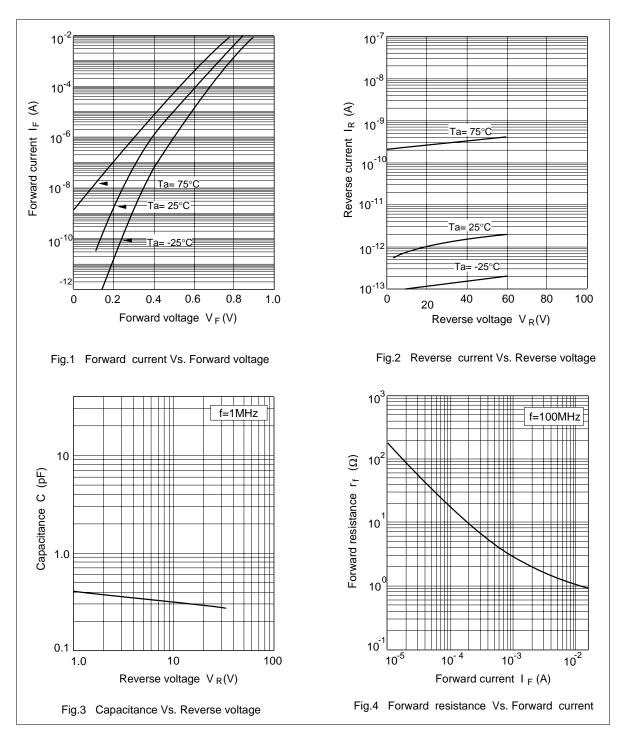
Item	Symbol	Value	Unit		
Peak reverse voltage	V _{RM}	65	V		
Reverse voltage	V _R	60	V		
Forward current	I _F	100	mA		
Power dissipation	P _d	150	mW		
Junction temperature	Tj	125	°C		
Storage temperature	Tstg	-55 to +125	°C		

Electrical Characteristics (Ta = 25° C)

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _R		_	0.1	μΑ	$V_{R} = 60V$
Forward voltage	V _F		_	1.0	V	I _F = 10 mA
Capacitance	С		—	0.5	pF	$V_{R} = 1V$, f = 1 MHz
Forward resistance	r _f		—	2.0	Ω	I _F = 10 mA, f = 100 MHz

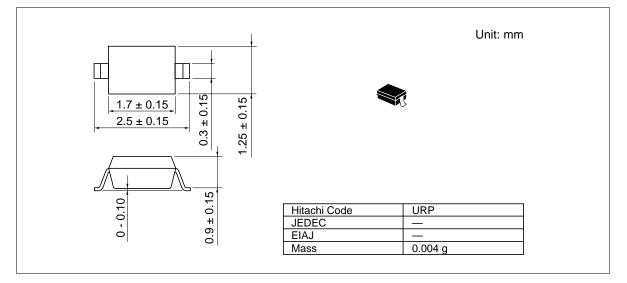
HITACHI

Main Characteristic



HVU132

Package Dimensions



Cautions

- 1. Hitachi neither warrants nor grants licenses of any rights of Hitachi's or any third party's patent, copyright, trademark, or other intellectual property rights for information contained in this document. Hitachi bears no responsibility for problems that may arise with third party's rights, including intellectual property rights, in connection with use of the information contained in this document.
- 2. Products and product specifications may be subject to change without notice. Confirm that you have received the latest product standards or specifications before final design, purchase or use.
- 3. Hitachi makes every attempt to ensure that its products are of high quality and reliability. However, contact Hitachi's sales office before using the product in an application that demands especially high quality and reliability or where its failure or malfunction may directly threaten human life or cause risk of bodily injury, such as aerospace, aeronautics, nuclear power, combustion control, transportation, traffic, safety equipment or medical equipment for life support.
- 4. Design your application so that the product is used within the ranges guaranteed by Hitachi particularly for maximum rating, operating supply voltage range, heat radiation characteristics, installation conditions and other characteristics. Hitachi bears no responsibility for failure or damage when used beyond the guaranteed ranges. Even within the guaranteed ranges, consider normally foreseeable failure rates or failure modes in semiconductor devices and employ systemic measures such as fail-safes, so that the equipment incorporating Hitachi product does not cause bodily injury, fire or other consequential damage due to operation of the Hitachi product.
- 5. This product is not designed to be radiation resistant.
- 6. No one is permitted to reproduce or duplicate, in any form, the whole or part of this document without written approval from Hitachi.
- 7. Contact Hitachi's sales office for any questions regarding this document or Hitachi semiconductor products.



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 URL NorthAmerica http:semiconductor.hitachi.com/ http://www.hitachi-eu.com/hel/ecg Europe http://www.has.hitachi.com.sg/grp3/sicd/index.htm http://www.hitachi.com.tw/E/Product/SICD_Frame.htm Asia (Singapore) Asia (Taiwan) Asia (HongKong) http://www.hitachi.com.hk/eng/bo/grp3/index.htm http://www.hitachi.co.jp/Sicd/index.htm Japan For further information write to: Hitachi Semiconductor Hitachi Europe GmbH Hitachi Asia Pte. Ltd. (America) Inc. Electronic components Group 16 Collyer Quay #20-00 179 East Tasman Drive, Dornacher Stra§e 3 Hitachi Tower San Jose,CA 95134 D-85622 Feldkirchen, Munich Singapore 049318 Tel: <1> (408) 433-1990 Fax: <1>(408) 433-0223 Germany Tel: 535-2100 Tel: <49> (89) 9 9180-0 Fax: 535-1533 Fax: <49> (89) 9 29 30 00 Hitachi Asia Ltd. Hitachi Europe Ltd. Taipei Branch Office Electronic Components Group. Whitebrook Park 3F, Hung Kuo Building. No.167, Tun-Hwa North Road, Taipei (105) Lower Cookham Road Tel: <886> (2) 2718-3666 Maidenhead Fax: <886> (2) 2718-8180 Berkshire SL6 8YA, United Kingdom

Tel: <44> (1628) 585000 Fax: <44> (1628) 778322 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

Copyright ' Hitachi, Ltd., 2000. All rights reserved. Printed in Japan.

