1SS86

Silicon Schottky Barrier Diode for UHF TV Tuner Mixer

HITACHI

ADE-208-186B (Z)

Rev. 2 Oct. 2000

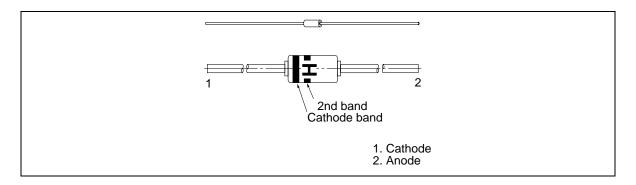
Features

- Low capacitance. (C = 0.85 pF max)
- High reliability with glass seal.

Ordering Information

Туре No.	Cathode band	2nd band	Mark	Package Code
1SS86	White	White	Н	DO-35

Outline





1SS86

Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	3	V
Average forward current	I _o	30	mA
Power dissipation	Pd	150	mW
Junction temperature	Тј	100	°C
Storage temperature	Tstg	-55 to +100	°C

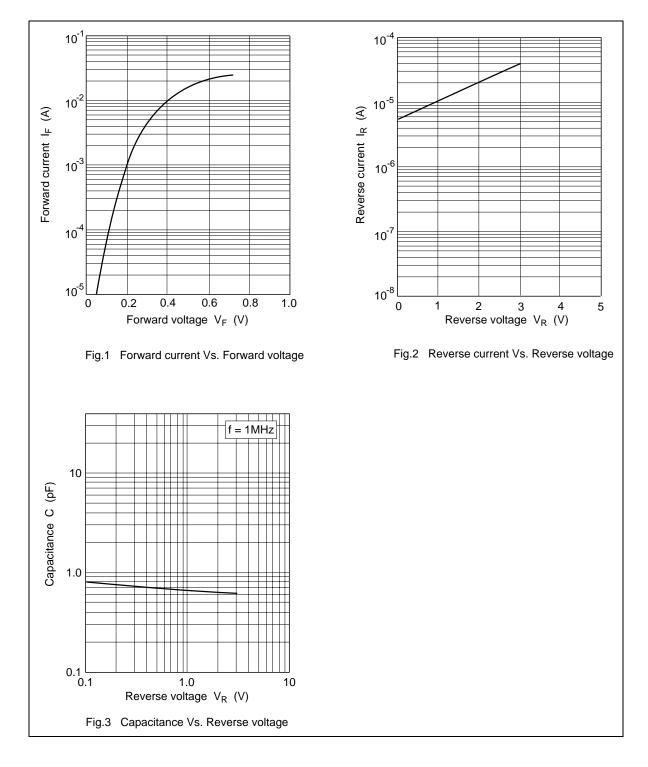
Electrical Characteristics

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward current	I _F	8	_	_	mA	V _F = 0.5 V
Reverse voltage	V _R	3	_	_	V	I _R = 1 mA
Reverse current	I _R	_	_	50	μΑ	V _R = 0.5 V
Capacitance	С	_	_	0.85	pF	V _R = 0.5 V, f = 1 MHz
ESD-Capability *	—	30	_		V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

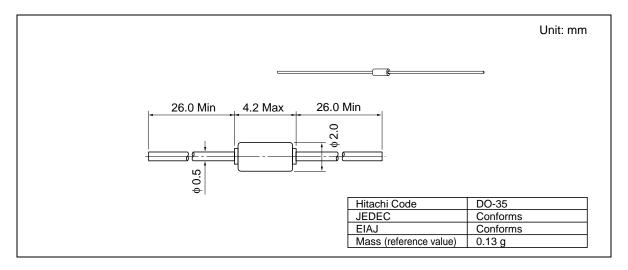
Note: Failure criterion ; $I_{_R}\!>\!50~\mu A$ at $V_{_R}\!=0.5~V$

Main Characteristic



1SS86

Package Dimensions



HITACHI

Disclaimer

- 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 failsafes, 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.

Sales Offices

ITACH

Hitachi. Ltd.

Semiconductor & Integrated Circuits Nippon Bldg., 2-6-2, Ŏhte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Tel: (03) 3270-2111 Fax: (03) 3270-5109

JRL	NorthAmerica
	Europe
	Asia
	Japan

http://semiconductor.hitachi.com/ http://www.hitachi-eu.com/hel/ecg http://sicapac.hitachi-asia.com http://www.hitachi.co.jp/Sicd/indx.htm

For further information write to:

Hitachi Semiconductor (America) Inc. 179 East Tasman Drive San Jose,CA 95134

Hitachi Europe Ltd. Electronic Components Group Whitebrook Park Lower Cookham Road Tel: <1> (408) 433-1990 Maidenhead Fax: <1>(408) 433-0223 Berkshire SL6 8YA, United Kingdom Tel: <44> (1628) 585000 Fax: <44> (1628) 585200

Hitachi Europe GmbH Electronic Components Group Dornacher Straße 3 D-85622 Feldkirchen, Munich Germany Tel: <49> (89) 9 9180-0 Fax: <49> (89) 9 29 30 00

Hitachi Asia Ltd. Hitachi Tower 16 Collyer Quay #20-00 Singapore 049318 Tel : <65>-538-6533/538-8577 Fax : <65>-538-6933/538-3877 URL : http://www.hitachi.com.sg

Hitachi Asia Ltd. (Taipei Branch Office) 4/F, No. 167, Tun Hwa North Road Hung-Kuo Building Taipei (105), Taiwan Tel : <886>-(2)-2718-3666 Fax : <886>-(2)-2718-8180 Telex : 23222 HAS-TP URL : http://www.hitachi.com.tw

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 URL : http://semiconductor.hitachi.com.hk

Copyright © Hitachi, Ltd., 2001. All rights reserved. Printed in Japan. Colophon 4.0

