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Renesas Technology Corp. Customer Support Dept. April 1, 2003



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semiconductors may lead to personal injury, fire or property damage.
Remember to give due consideration to safety when making your circuit designs, with appropriate
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Silicon Epitaxial Trench Pin Diode for Antenna Switching



ADE-208-958A (Z)

Rev.1 May 2001

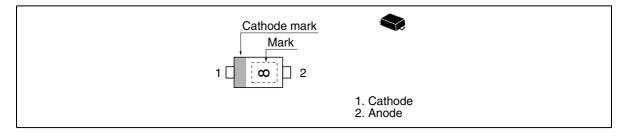
Features

- Adopting the trench structure improves low capacitance. (C = 0.9 pF max)
- Low forward resistance. (rf = $1.1 \Omega \text{ max}$)
- Low operation current.
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD138	8	SFP

Outline



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V_{R}	30	V
Forward current	I _F	100	mA
Power dissipation	Pd	150	mW
Junction temperature	Тј	125	°C
Storage temperature	Tstg	−55 to +125	°C

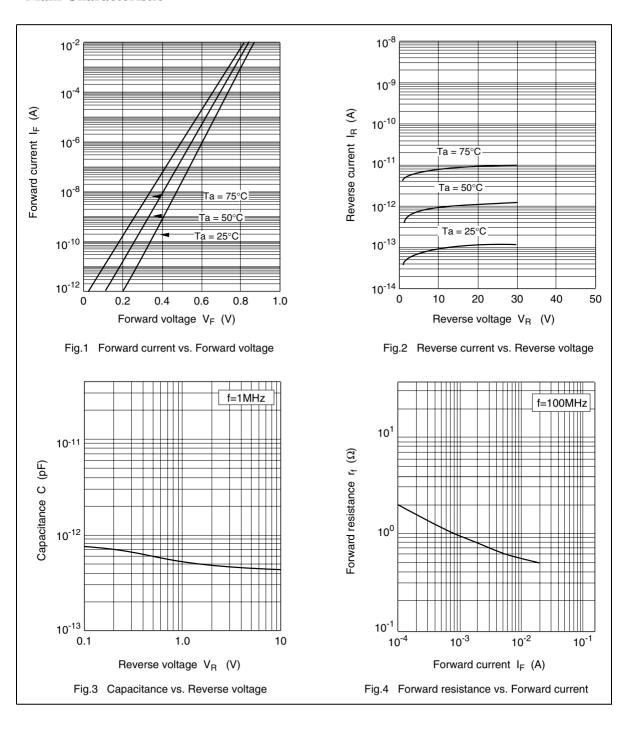
Electrical Characteristics

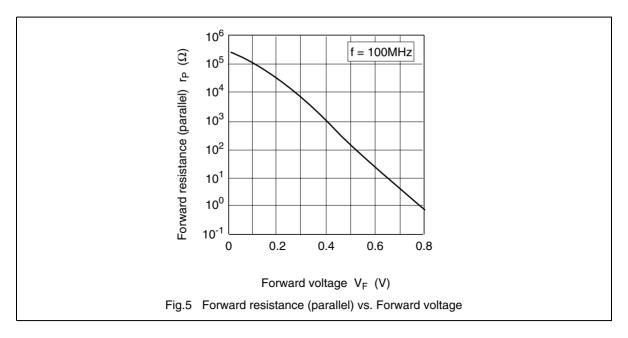
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	10	nA	V _R = 25 V
Forward voltage	V _F	_	_	0.9	V	I _F = 2 mA
Capacitance	С	_	_	0.9	рF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_	_	1.1	Ω	I _F = 2 mA, f = 100 MHz

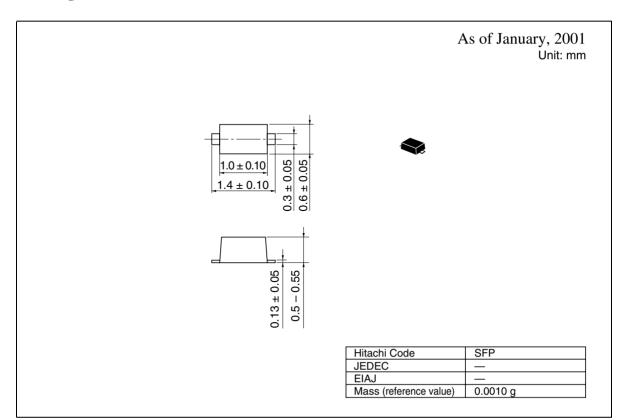
Note: 1. Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic





Package Dimensions



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