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



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Silicon Epitaxial Trench Pin Diode for Antenna Switching

RENESAS

ADE-208-1087 (Z)

Rev. 0 Jan. 2001

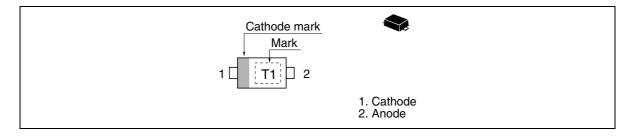
Features

- Low capacitance. (C = 0.82 pF max)
- Low forward resistance. (rf = $0.8 \Omega \max$)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Туре No.	Laser Mark	Package Code
HVD141	T1	SFP

Pin Arrangement



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	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

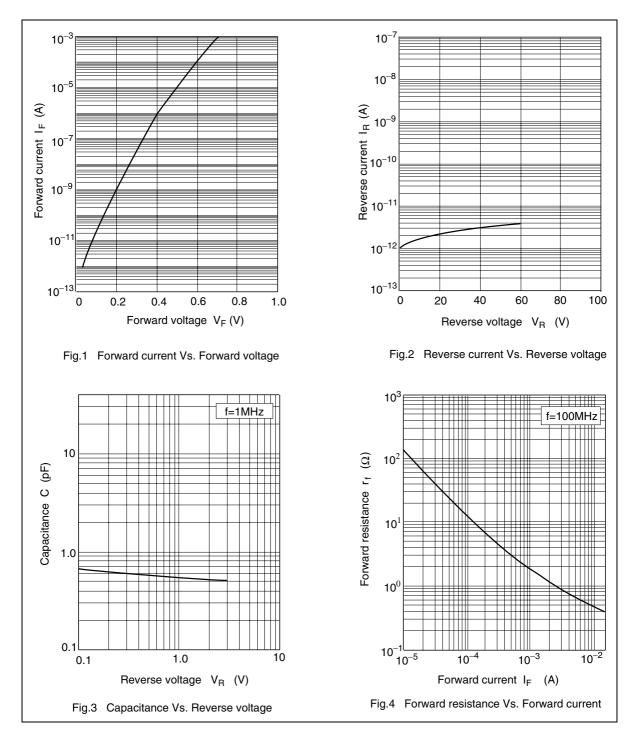
Electrical Characteristics

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

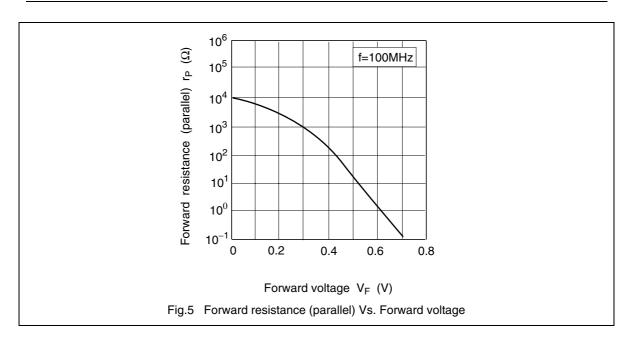
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	l _R	_	_	0.1	μA	$V_{_{R}} = 30 V$
Forward voltage	V _F		_	1.0	V	I _F = 10 mA
Capacitance	С	_	_	0.82	pF	$V_{_{\rm R}} = 1 \text{ V}, \text{ f} = 1 \text{ MHz}$
Forward resistance	r _f			0.8	Ω	I _F = 10 mA, f = 100 MHz

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

Main Characteristic

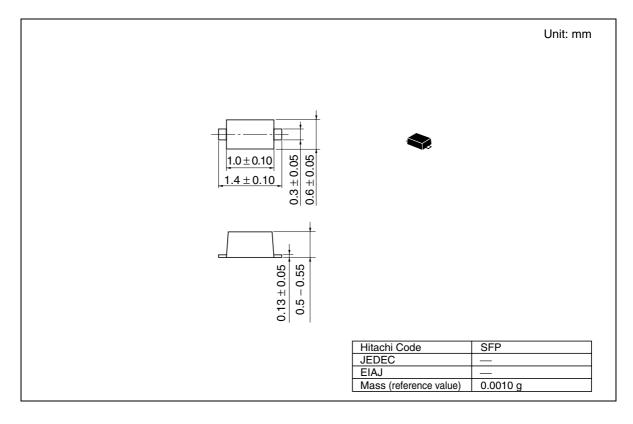


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Package Dimensions



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