

# **HVD148**

## Silicon Epitaxial Trench Pin Diode for Antenna Switching

REJ03G0210-0100Z Rev.1.00 Apr.05.2004

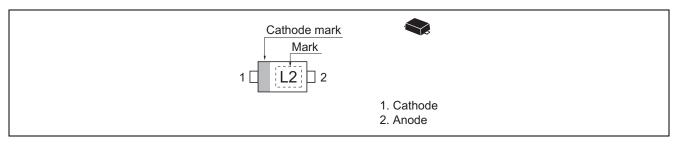
#### **Features**

- An optimal solution for antenna switching in mobile phones.
- Low capacitance.(C = 0.37 pF max)
- Low forward resistance. (rf =  $2.5 \Omega \text{ max}$ )
- Super small Flat Package (SFP) is suitable for surface mount design.

#### **Ordering Information**

Type No.	Laser Mark	Package Code
HVD148	L2	SFP

#### **Pin Arrangement**



#### **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit	
Reverse voltage	$V_R$	30	V	
Forward current	l <sub>F</sub>	100	mA	
Power dissipation	Pd	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

#### **Electrical Characteristics**

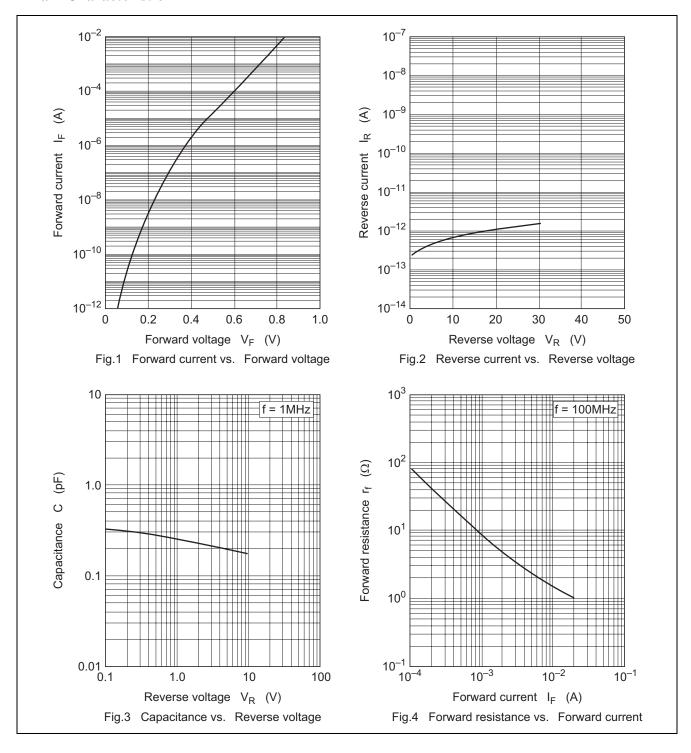
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	$I_R$	_	_	100	nA	V <sub>R</sub> = 30 V
Forward voltage	$V_{F}$	_	_	1.0	V	I <sub>F</sub> = 10 mA
Capacitance	С	_	_	0.37	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Forward resistance	r <sub>f</sub>	_	_	2.5	Ω	I <sub>F</sub> = 10 mA, f = 100 MHz

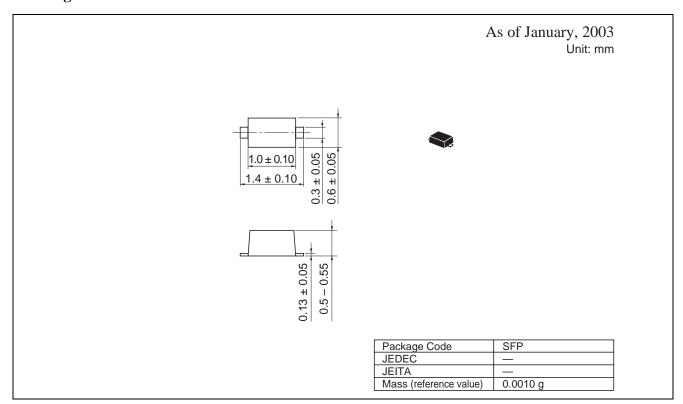
Notes: 1. Please do not use the soldering iron due to avoid high stress to the EFP package.

2. The material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

#### **Main Characteristic**



### **Package Dimensions**



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Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, United Kingdom Tel: <44> (1628) 585 100, Fax: <44> (1628) 585 900

**Renesas Technology Europe GmbH**Dornacher Str. 3, D-85622 Feldkirchen, Germany
Tel: <49> (89) 380 70 0, Fax: <49> (89) 929 30 11

Renesas Technology Hong Kong Ltd. 7/F., North Tower, World Finance Centre, Harbour City, Canton Road, Hong Kong Tel: <852> 2265-6688, Fax: <852> 2375-6836

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Renesas Technology Singapore Pte. Ltd. 1, Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632 Tel: <65> 6213-0200, Fax: <65> 6278-8001