

# HVL147

Silicon Epitaxial Trench Pin Diode for Antenna Switching

REJ03G0393-0300 Rev.3.00 Jan 13, 2006

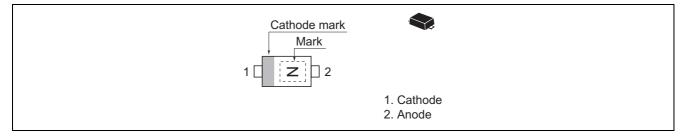
### Features

- Adopting the trench structure improves low capacitance. (C = 0.31 pF max)
- Low forward resistance. (rf =  $1.5 \Omega$  max)
- Low operation current.
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Name	Package Code
HVL147	Ν	EFP	PXSF0002ZA-A

### Pin Arrangement





# **Absolute Maximum Ratings**

		$(Ta = 25^{\circ}C)$		
Item	Symbol	Value	Unit	
Reverse voltage	V <sub>R</sub>	30	V	
Forward current	I <sub>F</sub>	100	mA	
Power dissipation	Pd	100	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

### **Electrical Characteristics**

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

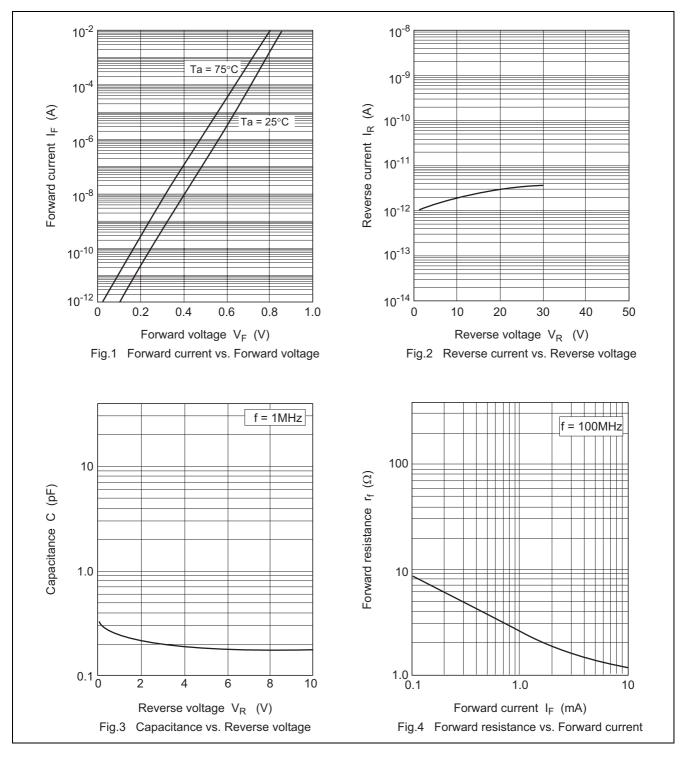
nA	1/ 001/
	$V_R = 30 V$
V	I <sub>F</sub> = 10 mA
pF	$V_R = 1 V$ , f = 1 MHz
Ω	I <sub>F</sub> = 2 mA, f = 100 MHz
	I <sub>F</sub> = 10 mA, f = 100 MHz
V	C = 200 pF, R = 0 $\Omega$ , Both forward and reverse direction 1 pulse.
	pF

Notes: 1. Failure criterion ;  $I_R > 100 \text{ nA}$  at  $V_R = 30 \text{ V}$ 

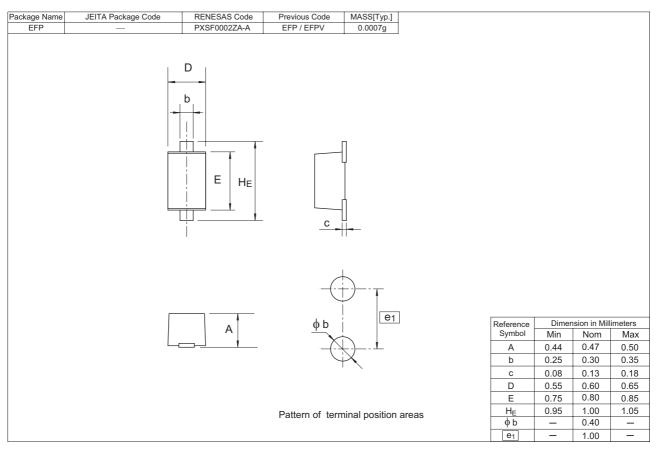
2. For EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



### **Main Characteristic**



### **Package Dimensions**





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