

HVL147

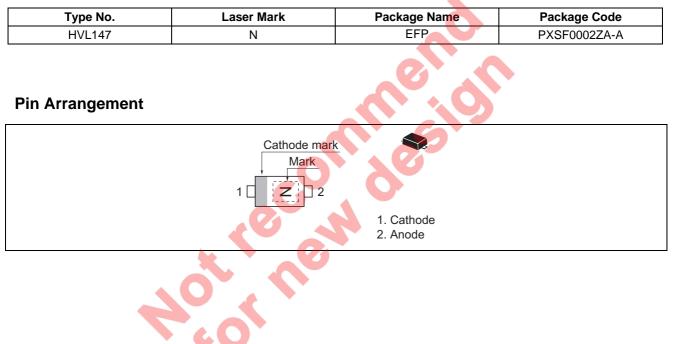
Silicon Epitaxial Trench Pin Diode for Antenna Switching

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 = 1.5Ω max)
- Low operation current.
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information





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	100	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	—	—	100	nA	V _R = 30 V
Forward voltage	V _F	—	—	1.00	V	I _F = 10 mA
Capacitance	С	—	—	0.31	pF	$V_R = 1 V$, f = 1 MHz
Forward resistance	r _f	—	2.5	—	Ω	I _F = 2 mA, f = 100 MHz
		—	—	1.5		I _F = 10 mA, f = 100 MHz
ESD-Capability *1	—	100	—	—	V	C = 200 pF, R = 0 Ω , Both forward and
						reverse direction 1 pulse.

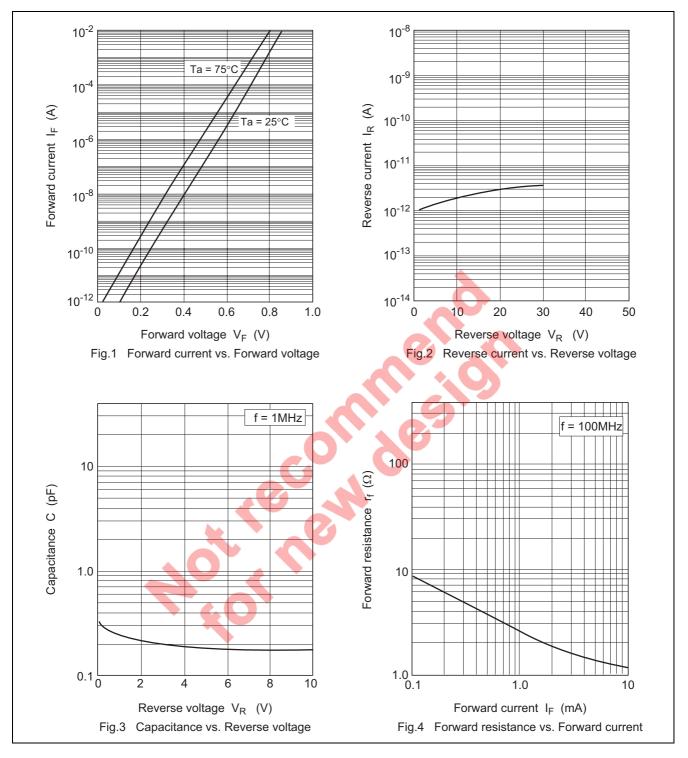
Notes: 1. Failure criterion ; $I_R > 100 \mbox{ nA}$ at V_R = 30 V

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.

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Main Characteristic





Package Dimensions





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