

HVL142A

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0432-0200 Rev.2.00 Jan 13, 2006

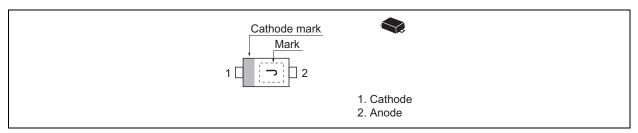
Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = $1.3 \Omega \text{ max}$)
- Extremely small Flat Lead Package (EFP) is suitable for surface mount design.

Ordering Information

Type No.	Type No. Laser Mark		Package Code	
HVL142A	J	EFP	PXSF0002ZA-A	

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	100	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	−55 to +125	°C	

Electrical Characteristics

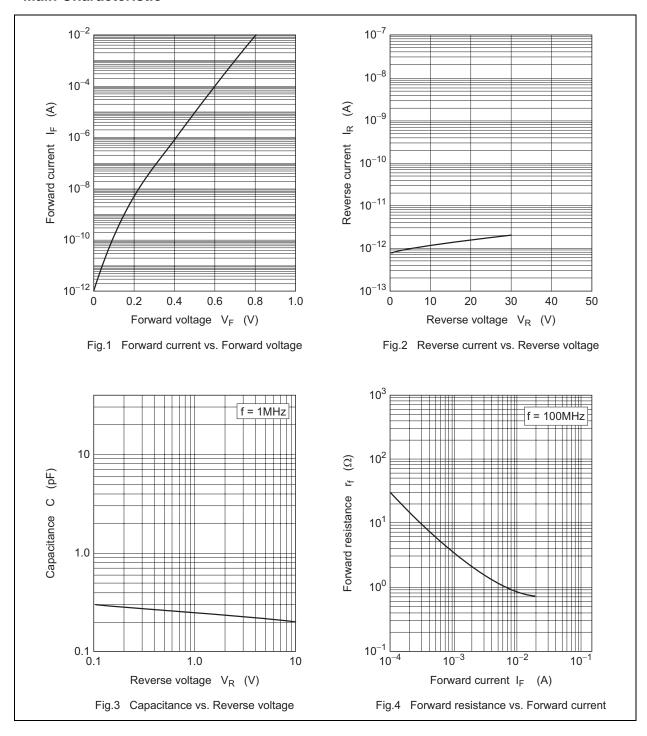
 $(Ta = 25^{\circ}C)$

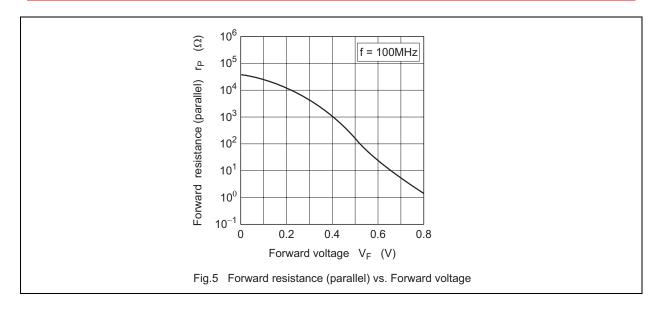
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	100	nA	V _R = 30 V
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA
Capacitance	С	_	_	0.35	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_	_	1.3	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward
						and reverse direction 1 pulse.

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

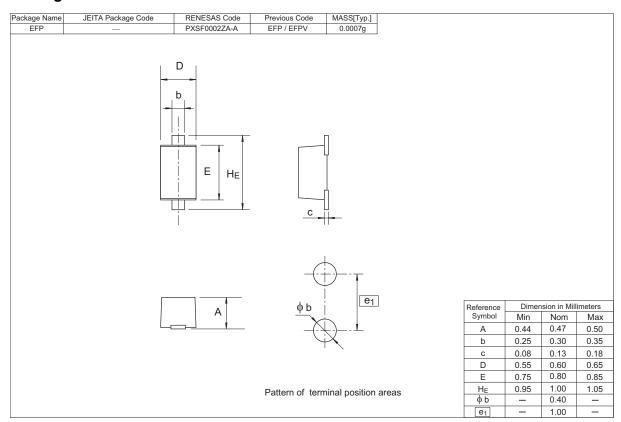
^{2.} For EFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic





Package Dimensions



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