

HVD142A

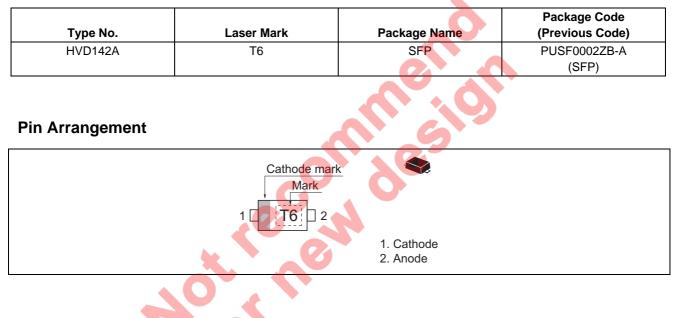
Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0428-0200 Rev.2.00 Sep 21, 2005

Features

- An optimal solution for antenna switching in mobile phones.
- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf = 1.3Ω max)
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

Ordering Information





Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$	
ltem	Symbol	Ratings	Unit	
Reverse voltage	V _R	30	V	
Forward current	I _F	100	mA	
Power dissipation	Pd	150	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

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

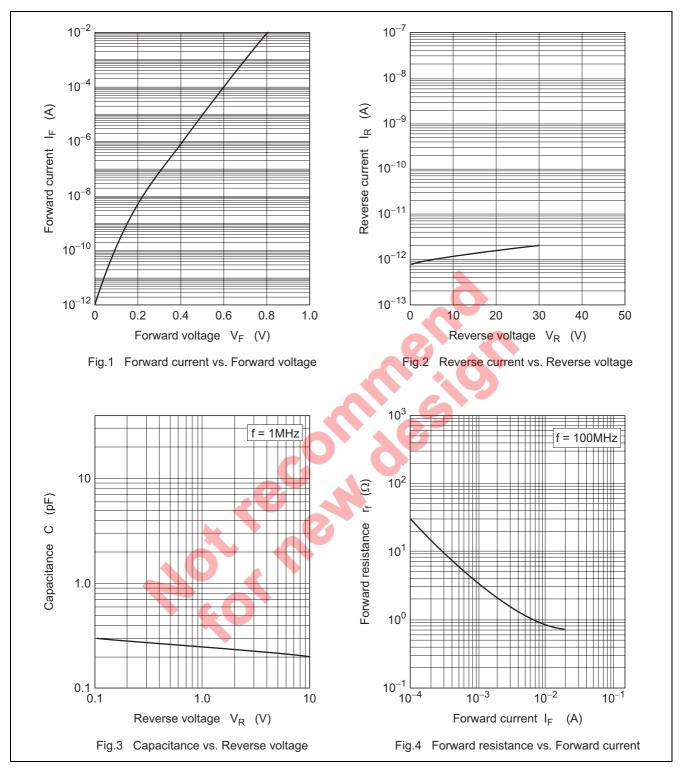
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	-	100	nA	V _R = 30 V
Forward voltage	V _F	_		1.0	V	I _F = 10 mA
Capacitance	С	_		0.35	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_	-	1.3	Ω	J _F = 10 mA, f = 100 MHz
ESD-Capability *1	—	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$,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

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

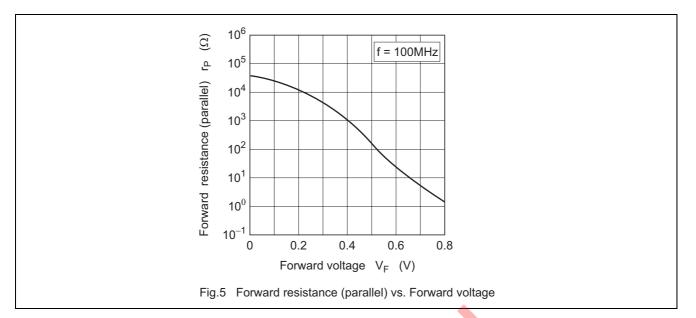
2. For SFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.



Main Characteristic









Package Dimensions





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April 1st, 2010 Renesas Electronics Corporation

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