

HVL142AM

Silicon Epitaxial Planar Pin Diode for Antenna Switching

REJ03G0198-0200 Rev.2.00 Jan 19, 2006

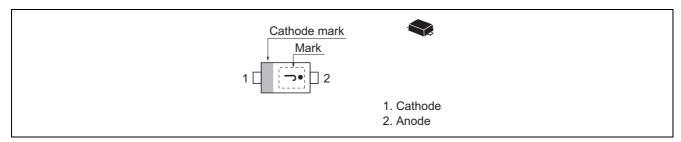
Features

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

Ordering Information

Type No.	Type No. Laser Mark		Package Code	
HVL142AM	J	TEFP	PUSF0002ZA-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

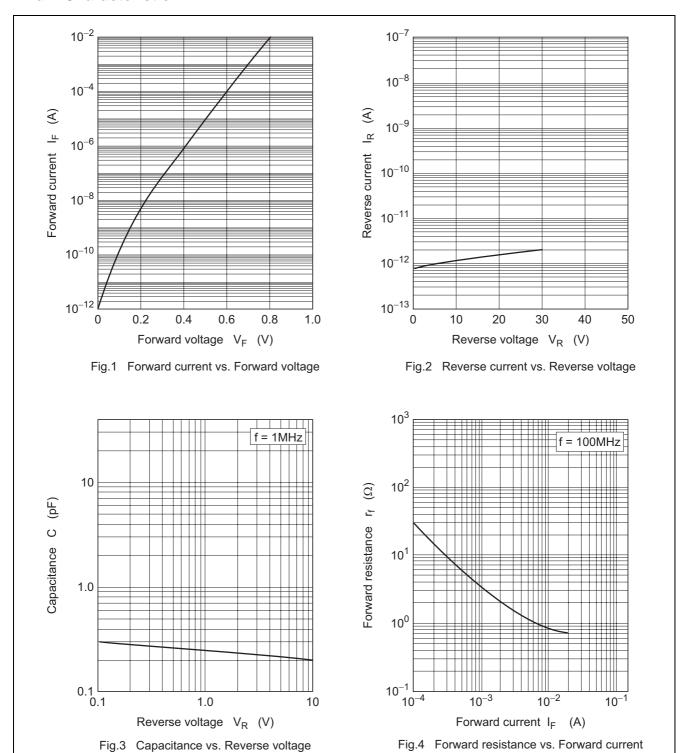
 $(Ta = 25^{\circ}C)$

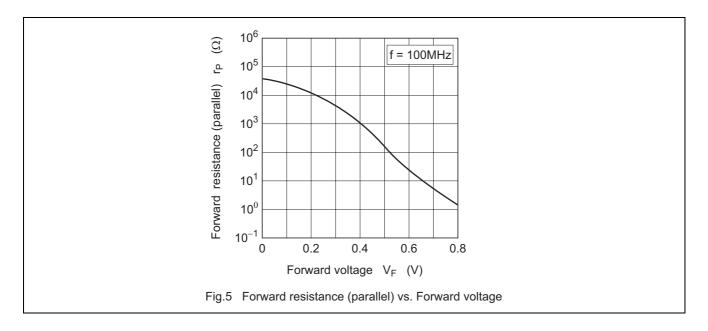
Item	Symbol	Min	Тур	Max	Unit	Test Condition	
Reverse current	I _R	_	_	100	nA	V _R = 30 V	
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA	
Capacitance	С	_	_	0.35	pF	$V_R = 1 V, f = 1 MHz$	
Forward resistance	r _f	_	_	1.3	Ω	I _F = 10 mA, f = 100 MHz	
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R =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

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

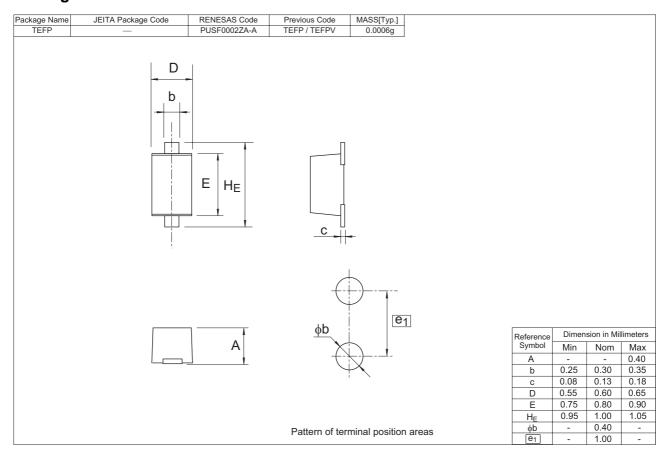
2. For TEFP package, the material of lead is exposed for cutting plane. There for, soldering nature of lead tip part is considered as unquestioned. Please kindly consider soldering nature.

Main Characteristic





Package Dimensions



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