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Silicon Epitaxial Planar Pin Diode for High Frequency Switching



ADE-208-1507A (Z)

Rev.1 Jun. 2002

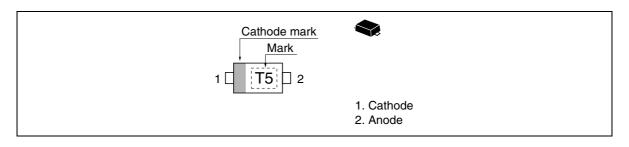
Features

- Low capacitance.(C = 0.45 pF max)
- Low forward resistance. (rf = $1.8 \Omega \text{ max}$)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD145	T5	SFP

Pin Arrangement



Absolute Maximum Ratings

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

Item	Symbol	Value	Unit	
Reverse voltage	V _R	60	V	
Forward current	I _F	50	mA	
Power dissipation	Pd	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics

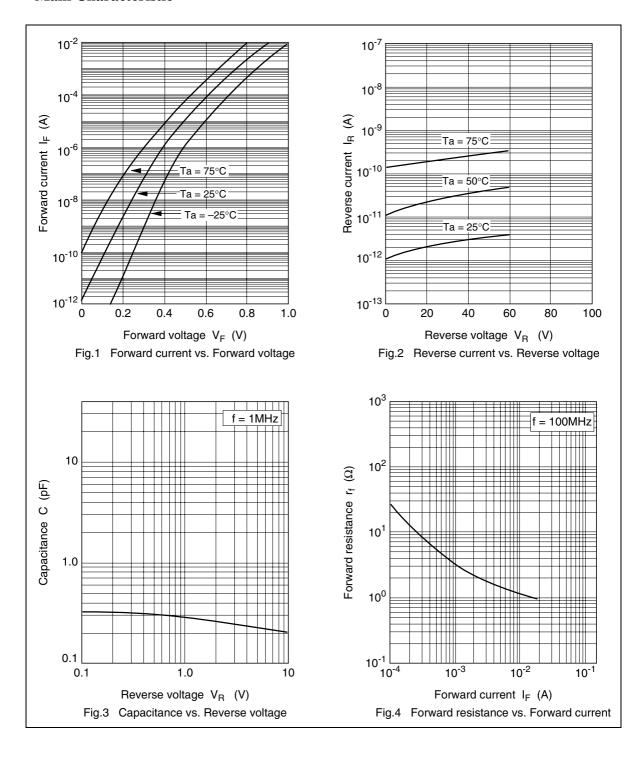
 $(Ta = 25^{\circ}C)$

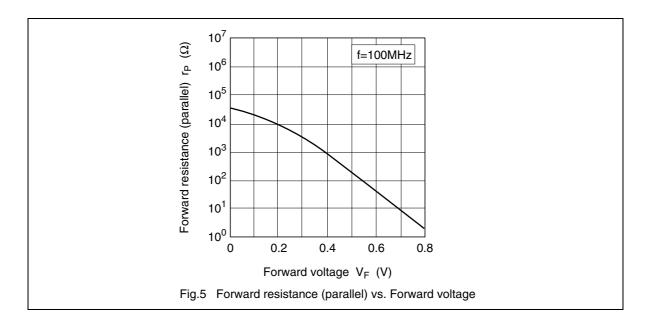
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	100	nA	V _R = 60 V
Forward voltage	V _F	_	_	0.9	V	I _F = 2 mA
Capacitance	С	_	_	0.45	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_	_	1.8	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *1	_	100	_	_	V	$C = 200 \text{ pF}, R = 0 \Omega$, Both forward and reverse direction 1 pulse.

Notes : 1. Failure criterion ; $I_R \ge 100$ nA at $V_R = 60$ V

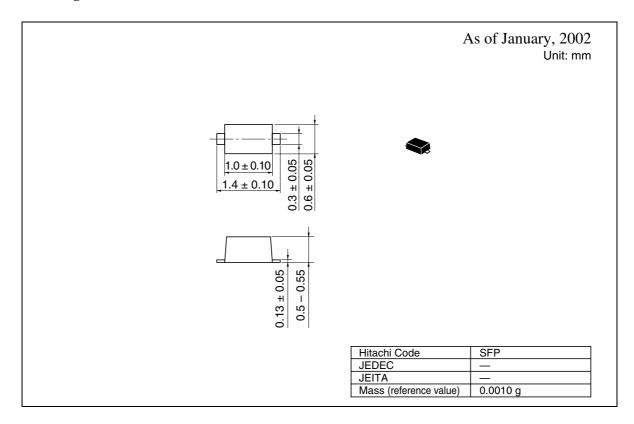
2. Please do not use the soldering iron due to avoid high stress to the SFP package.

Main Characteristic





Package Dimensions



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