Silicon Epitaxial Planar Pin Diode for Antenna Switching

HITACHI

ADE-208-1087 (Z) Rev.0 Jan. 2001

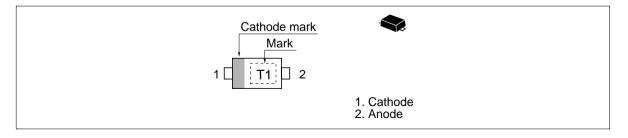
Features

- Low capacitance. (C = 0.82 pF max)
- Low forward resistance. (rf = $0.8 \Omega \text{ max}$)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code	
HVD141	T1	SFP	

Outline





Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit V	
Reverse voltage	V_R	30		
Forward current	I _F	100	mA	
Power dissipation	Pd	150	mW	
Junction temperature	Tj	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

Electrical Characteristics(Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	0.1	μΑ	V _R = 30 V
Forward voltage	V _F	_	_	1.0	V	I _F = 10 mA
Capacitance	С	_	_	0.82	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f	_		0.8	Ω	I _F = 10 mA, f = 100 MHz

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

Main Characteristic

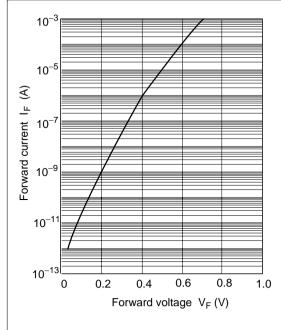


Fig.1 Forward current Vs. Forward voltage

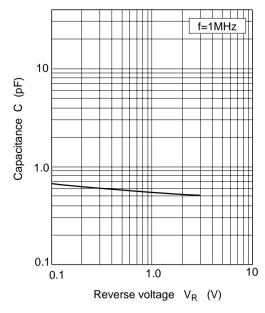


Fig.3 Capacitance Vs. Reverse voltage

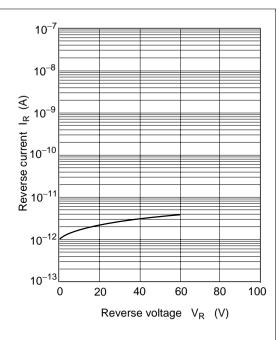


Fig.2 Reverse current Vs. Reverse voltage

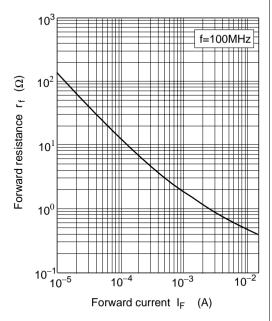
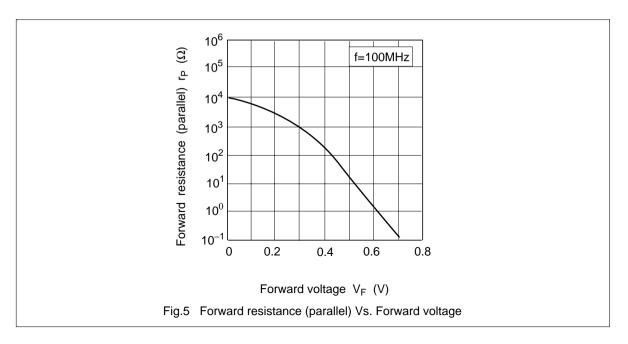
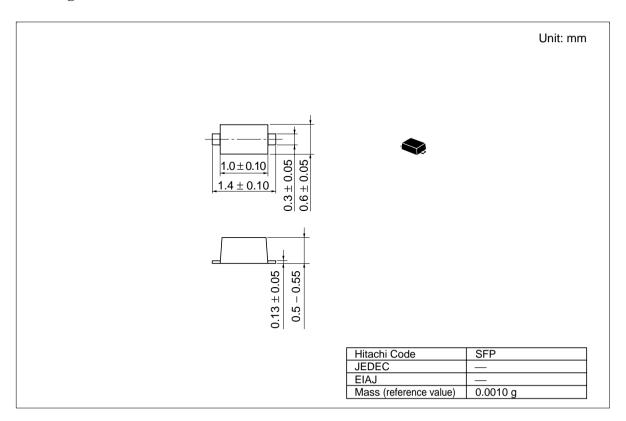


Fig.4 Forward resistance Vs. Forward current



Package Dimensions



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