HVD131

Silicon Epitaxial Planar Pin Diode for High Frequency Switching

HITACHI

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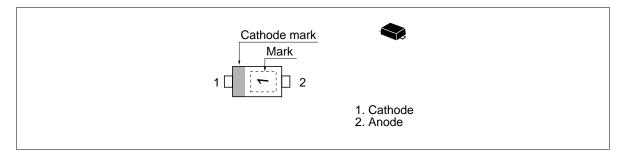
Features

- Low capacitance.(C=0.8pF max)
- Low forward resistance. (rf= 1.0Ω max)
- Super small Flat Package (SFP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVD131	1	SFP

Outline





HVD131

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

Item	Symbol	Value	Unit	
Peak reverse voltage	V_{RM}	65	V	
Reverse voltage	V_R	60	V	
Forward current	I _F	100	mA	
Power dissipation	P _d	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	_	_	0.1	μΑ	$V_R = 60V$
Forward voltage	V_{F}	_	_	1.0	V	$I_F = 10 \text{ mA}$
Capacitance	С	_	_	0.8	pF	$V_R = 1V, f = 1 MHz$
Forward resistance	r _f	_	_	1.0	Ω	I _F = 10 mA, f = 100 MHz

Note: Please mount soldering SFP by the reflow. (Reflow condition: 235°C max, for 10 seconds)

Do not use the soldering iron because soldering SFP causes package a big heat stress.

Main Characteristic

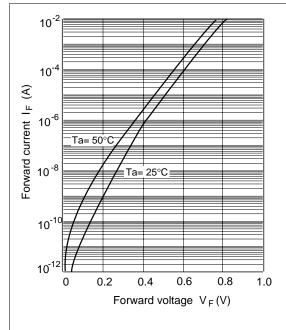


Fig.1 Forward current Vs. Forward voltage

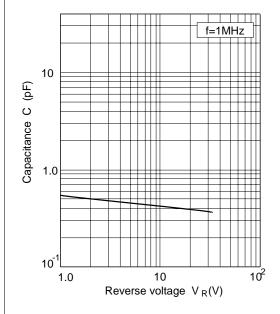


Fig.3 Capacitance Vs. Reverse voltage

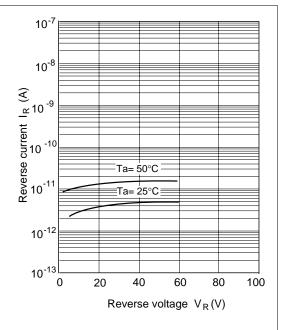


Fig.2 Reverse current Vs. Reverse voltage

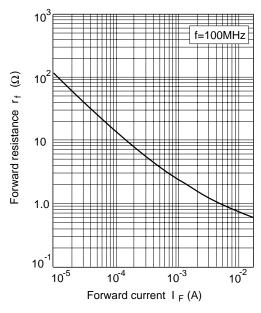
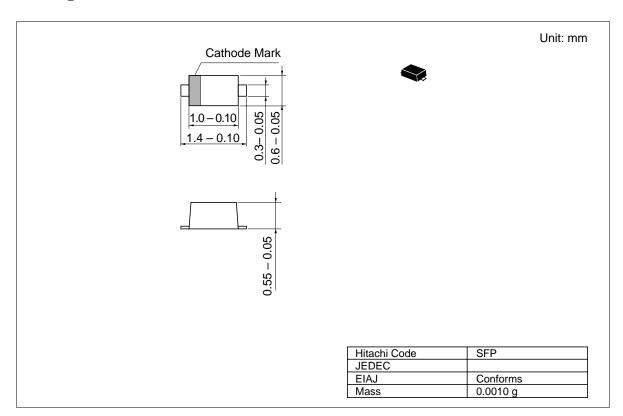


Fig.4 Forward resistance Vs. Forward current

HVD131

Package Dimensions



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