Silicon Epitaxial Planar Pin Diode for Antenna Switching

HITACHI

ADE-208-1093 (Z) Rev.0 Jan. 2001

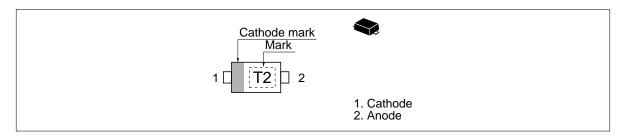
Features

- Low capacitance. (C = 0.35 pF max)
- Low forward resistance. (rf=1.5 Ω max)
- Ultra small Flat Package (UFP) is suitable for surface mount design and stable rf characteristics in high frequency.

Ordering Information

Туре No.	Laser Mark	Package Code
HVC142	T2	UFP

Outline





Absolute Maximum Ratings (Ta = 25° C)

Item	Symbol	Value	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

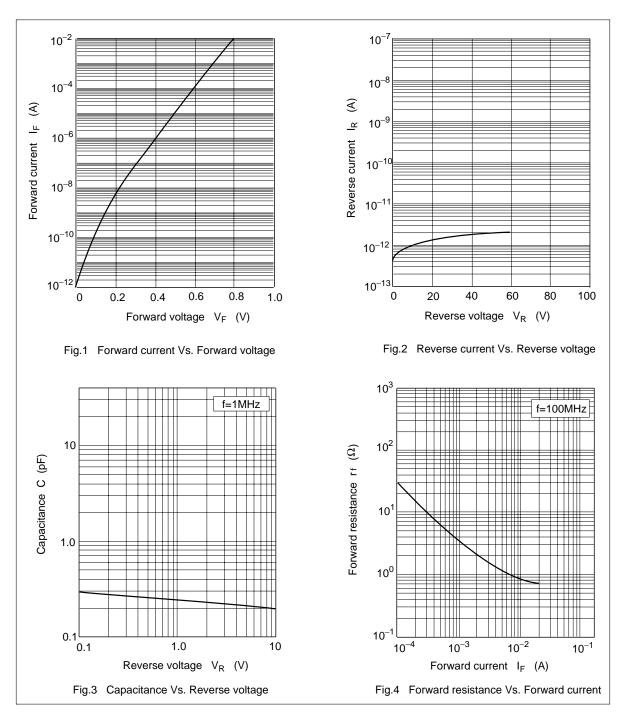
Electrical Characteristics (Ta = 25°C)

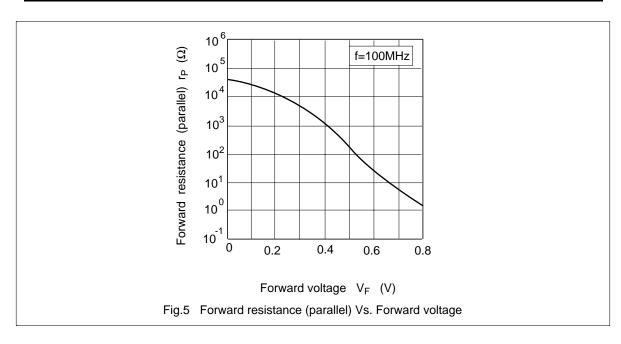
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _R	_	_	0.1	μΑ	V _R = 30 V
Forward voltage	V _F	_	_	1.0	V	I _F =10 mA
Capacitance	С		_	0.35	pF	V _R = 1 V, f = 1 MHz
Forward resistance	r _f		_	1.5	Ω	I _F = 10 mA, f = 100 MHz
ESD-Capability *		100			V	C = 200 pF, R = 0 Ω , Both forward and reverse direction 1 pulse.

Note: Failure criterion ; $I_R > 100$ nA at $V_R = 30$ V

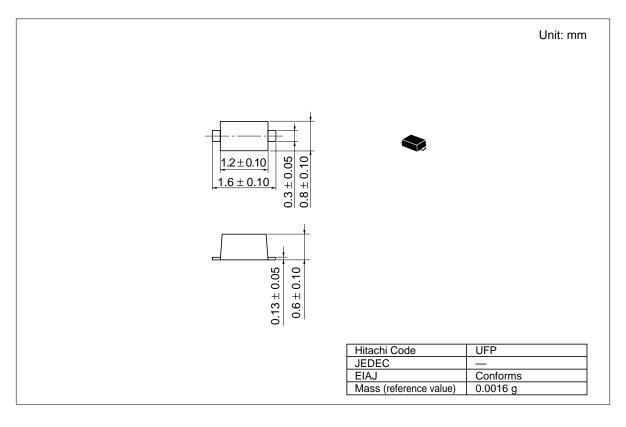
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Main Characteristic





Package Dimensions



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