HVU133

Silicon Epitaxial Planar Pin Diode for High Frequency Switching

HITACHI

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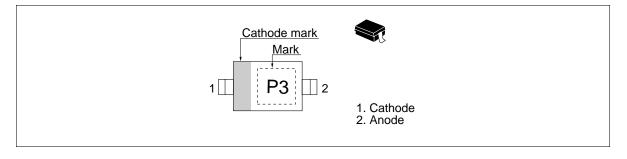
Features

- Low capacitance.(C1=1.0pF max)
- Low forward resistance. (rf= 0.7Ω max)
- Ultra small Resin Package (URP) is suitablefor high density surface mounting and high speed assembly.

Ordering Information

Type No.	Laser Mark	Package Code
HVU133	P3	URP

Outline





HVU133

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

Item	Symbol	Value	Unit	
Reverse voltage	V_R	30	V	
Power dissipation	P _d	150	mW	
Junction temperature	Тј	125	°C	
Storage temperature	Tstg	-55 to +125	°C	

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

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	V_R	30	_	_	V	$I_R = 1\mu A$
Reverse current	I _R	_	_	100	nA	V _R = 25V
Forward voltage	V _F	_	_	0.85	V	I _F = 2 mA
Capacitance	C ₁	_	_	1.0	pF	V _R = 1V, f = 1 MHz
	C ₆	_	_	0.9		$V_R = 6V, f = 1 MHz$
Forward resistance	r _f	_	0.55	0.7	Ω	I _F = 2mA, f = 100 MHz

Main Characteristic

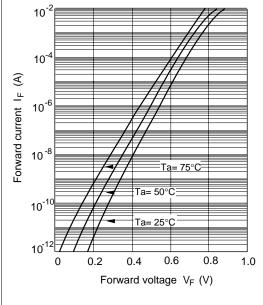


Fig.1 Forward current Vs. Forward voltage

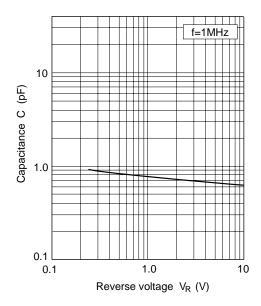


Fig.3 Capacitance Vs. Reverse voltage

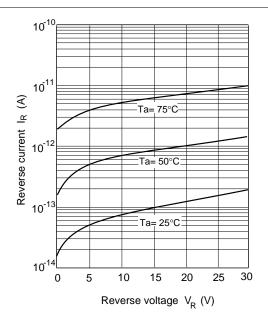


Fig.2 Reverse current Vs. Reverse voltage

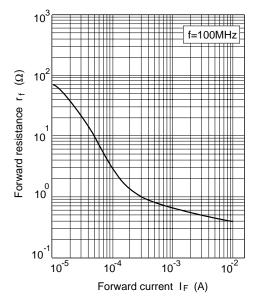
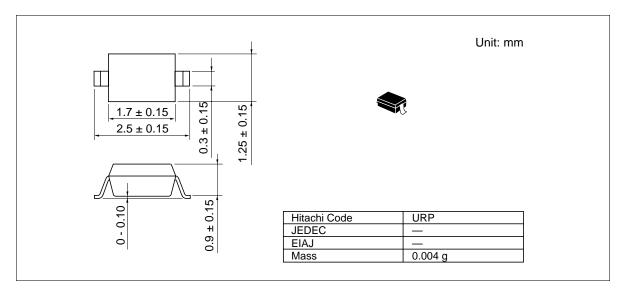


Fig.4 Forward resistance Vs. Forward current

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Package Dimensions



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