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HVU131

Silicon Epitaxial Planar Pin Diode for High Frequency Switching



ADE-208-239E (Z)

Rev. 5 Feb. 2000

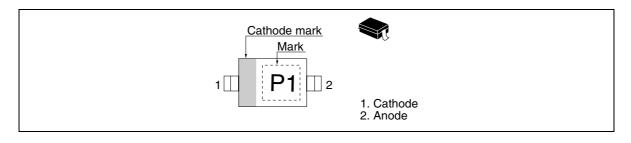
Features

- Low capacitance.(C=0.8pF max)
- Low forward resistance. (rf=1.0 Ω max)
- <u>Ultra small Resin Package (URP)</u> is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU131	P1	URP

Pin Arrangement



HVU131

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 mA
Capacitance	С	_	_	0.8	pF	$V_R = 1V, f = 1 MHz$
Forward resistance	r,	_	_	1.0	Ω	I _F = 10 mA, f = 100 MHz

Main Characteristic

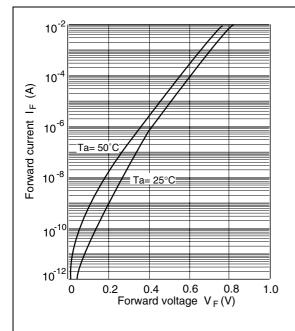


Fig.1 Forward current Vs. Forward voltage

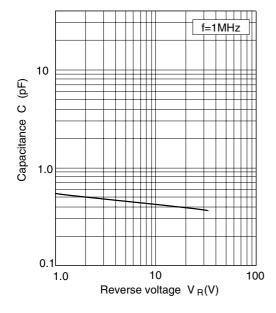


Fig.3 Capacitance Vs. Reverse voltage

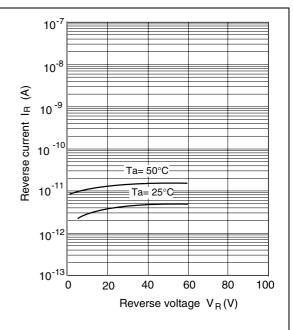


Fig.2 Reverse current Vs. Reverse voltage

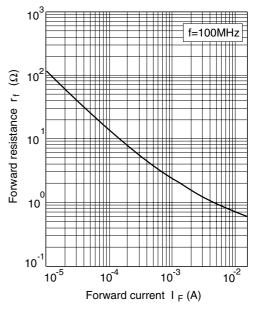
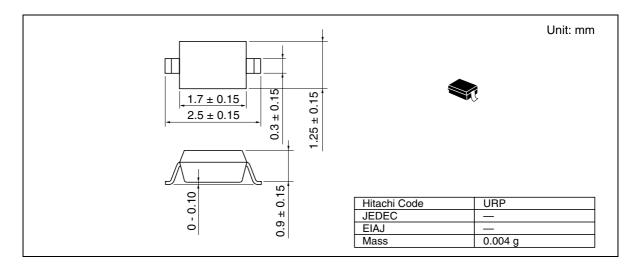


Fig.4 Forward resistance Vs. Forward current

HVU131

Package Dimensions



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