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Silicon Epitaxial Planar Pin Diode for High Frequency Switching



ADE-208-1508A (Z)

Rev.1 Jun. 2002

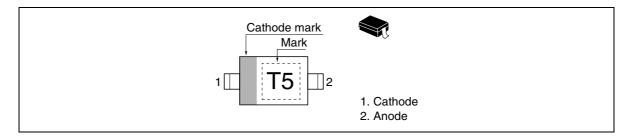
#### Features

- Low capacitance.(C = 0.45 pF max)
- Low forward resistance. (rf =  $1.8 \Omega \text{ max}$ )
- Ultra small Resin Package (URP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Code
HVU145	Τ5	URP

#### **Pin Arrangement**



## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	60	V
Forward current	I <sub>F</sub>	50	mA
Power dissipation	Pd	150	mW
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

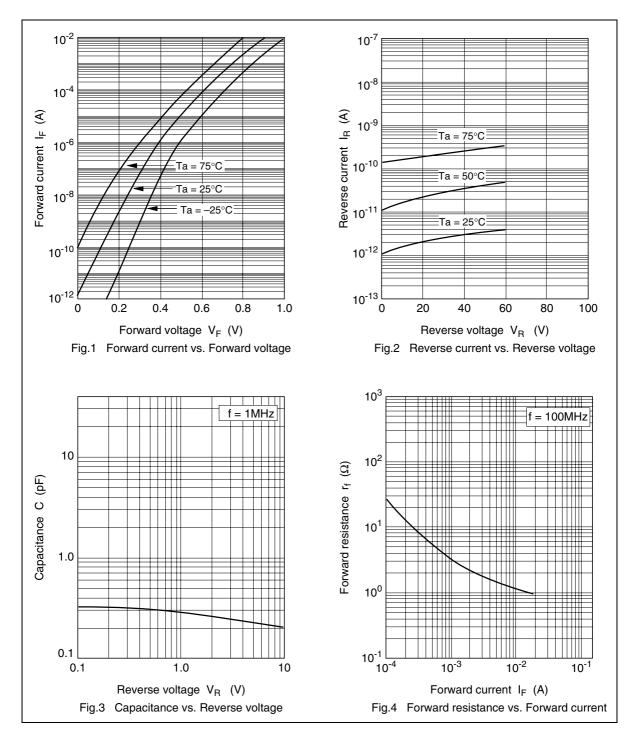
### **Electrical Characteristics**

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

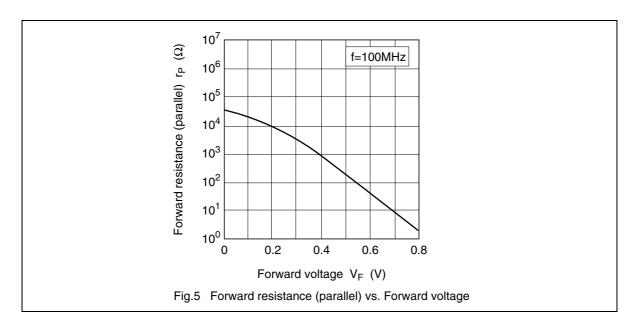
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R</sub>	_	_	100	nA	V <sub>R</sub> = 60 V
Forward voltage	V <sub>F</sub>	_	_	0.9	V	I <sub>F</sub> = 2 mA
Capacitance	С	_	_	0.45	pF	$V_{_{\mathrm{R}}} = 1 \text{ V}, \text{ f} = 1 \text{ MHz}$
Forward resistance	r,	_	_	1.8	Ω	I <sub>F</sub> = 10 mA, f = 100 MHz
ESD-Capability *1	_	100	—	—	V	C = 200 pF, R = 0 $\Omega$ , Both forward and reverse direction 1 pulse.

Note : 1. Failure criterion ;  $I_{_{\rm R}} \ge 100$  nA at  $V_{_{\rm R}} = 60$  V

## **Main Characteristic**

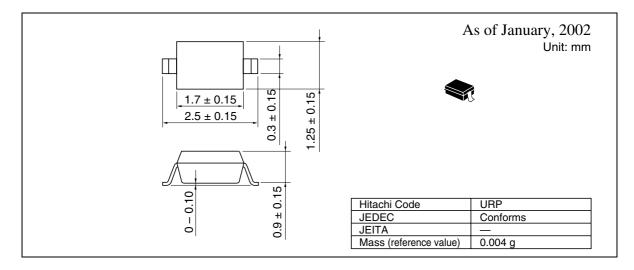


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## **Package Dimensions**





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