Silicon Epitaxial Planar Diode for High Voltage Switching

# HITACHI

ADE-208-307A(Z)

Rev. 1 Jun. 1996

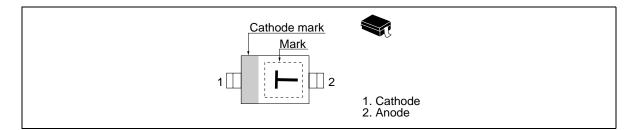
#### Features

- High reverse voltage. ( $V_R = 250V$ )
- Ultra small Resin Package (URP) is suitable for high density surface mounting and high speed assembly.

### **Ordering Information**

Type No.	Laser Mark	Package Code
HSU83	Т	URP

Outline





### **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub>	300	V
Reverse voltage	V <sub>R</sub>	250	V
Peak forward current	I <sub>FM</sub>	300	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> * <sup>1</sup>	2	A
Average rectified current	I <sub>o</sub>	100	mA
Junction temperature	Тј	125	°C
Storage temperature	Tstg	–55 to +125	°C

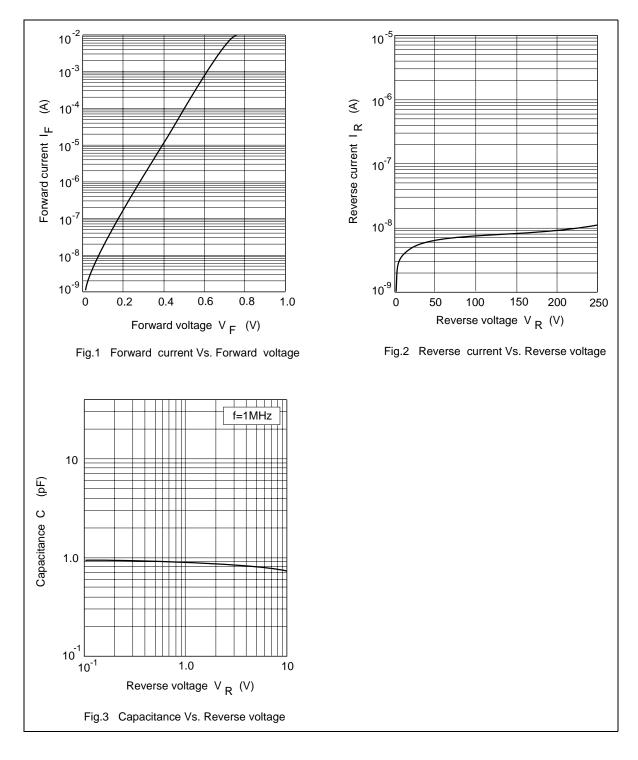
Note: 1. Value at duration of 10msec.

#### **Electrical Characteristics**

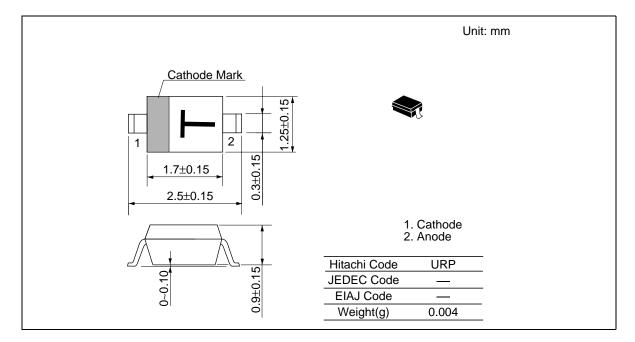
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	_	_	1.2	V	I <sub>F</sub> = 100 mA
Reverse current	I <sub>R1</sub>	—		0.2	μΑ	V <sub>R</sub> = 250V
	I <sub>R2</sub>		_	100		V <sub>R</sub> = 300V
Capacitance	С	_	_	3.0	pF	$V_{R} = 0V, f = 1 MHz$
Reverse recovery time	t <sub>rr</sub>	—	_	100	ns	$I_{F} = I_{R} = 30 \text{ mA}, I_{rr} = 3\text{mA}$





### **Package Dimensions**



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