

## HVU89

Variable Capacitance Diode for AFC

# HITACHI

ADE-208-066E(Z)

Rev 5

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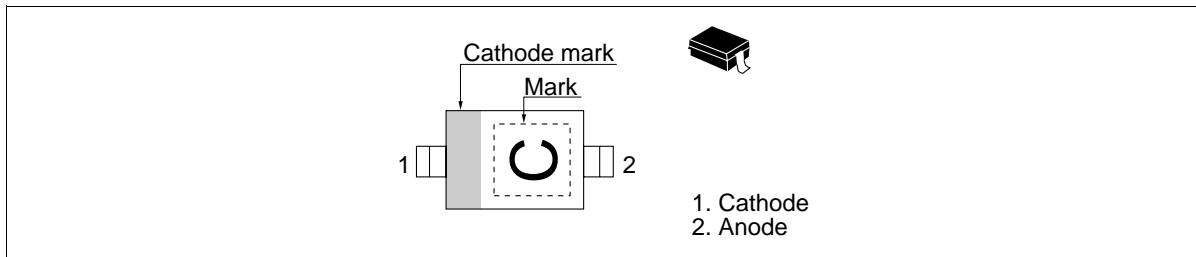
### Features

- High capacitance ratio to wide tuning band width. ( $C2/C10=2.5\sim3.4$ )
- Low series resistance. ( $r_s=1.2\Omega_{max}$ )
- Ultra small Resin Package (URP) is suitable for surface mount design.

### Ordering Information

Type No.	Laser Mark	Package Code
HVU89	C	URP

### Outline



## HVU89

### Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	VR	32	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55~+125	°C

### Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	IR1	∅	∅	10	nA	VR = 30V
	IR2	∅	∅	100		VR = 30V, Ta = 60 °C
Capacitance	C2	10.5	∅	16.0	pF	VR = 2V, f = 1 MHz
	C10	3.3	∅	5.7		VR = 10V, f = 1 MHz
Capacitance ratio	n	2.5	∅	3.4	∅	C2/ C10
Series resistance	rs	∅	∅	1.2	Ω	VR = 3V, f = 50 MHz

### Main Characteristic

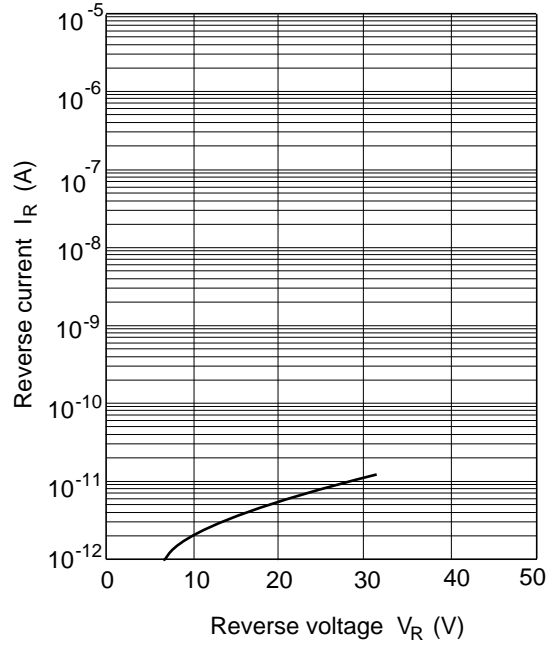


Fig.1 Reverse current Vs. Reverse voltage

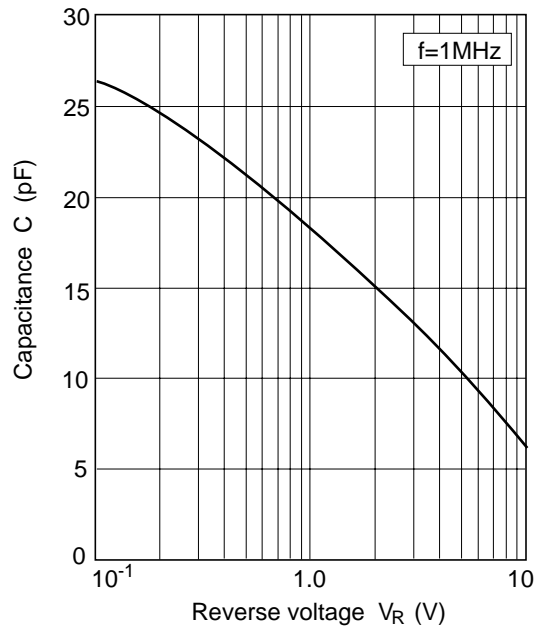


Fig.2 Capacitance Vs. Reverse voltage

## HVU89

### Package Dimensions

Unit : mm

