
HVU89

Variable Capacitance Diode for AFC

HITACHI

ADE-208-066E(Z)

Rev 5

June 1996

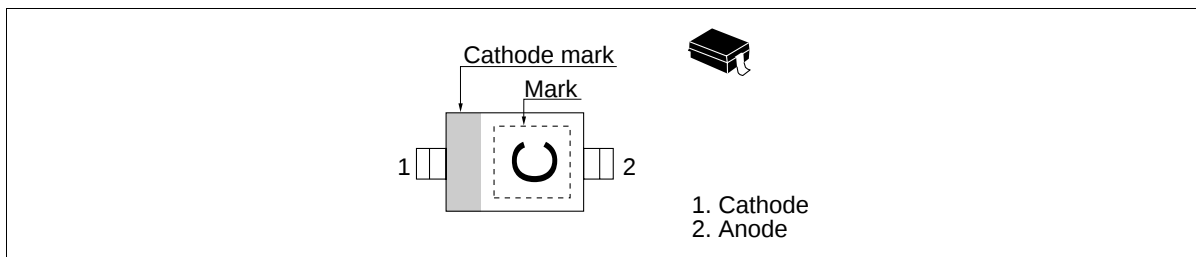
Features

- High capacitance ratio to wide tuning band width. ($C_2/C_{10}=2.5\sim 3.4$)
- Low series resistance. ($r_s=1.2\Omega_{\text{max}}$)
- 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	Å\	Å\	10	nA	VR = 30V
	IR2	Å\	Å\	100		VR = 30V , Ta =60 °C
Capacitance	C2	10.5	Å\	16.0	pF	VR = 2V, f = 1 MHz
	C10	3.3	Å\	5.7		VR = 10V, f = 1 MHz
Capacitance ratio	n	2.5	Å\	3.4	Å\	C2/ C10
Series resistance	rs	Å\	Å\	1.2	Ω	VR = 3V, f = 50 MHz

Main Characteristic

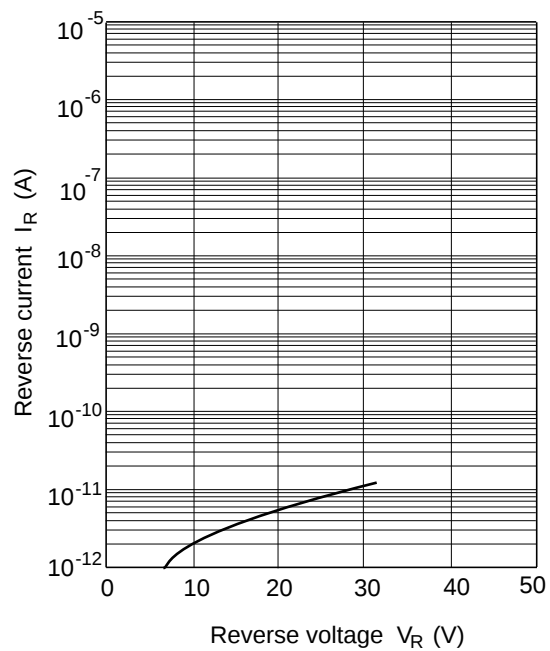


Fig.1 Reverse current Vs. Reverse voltage

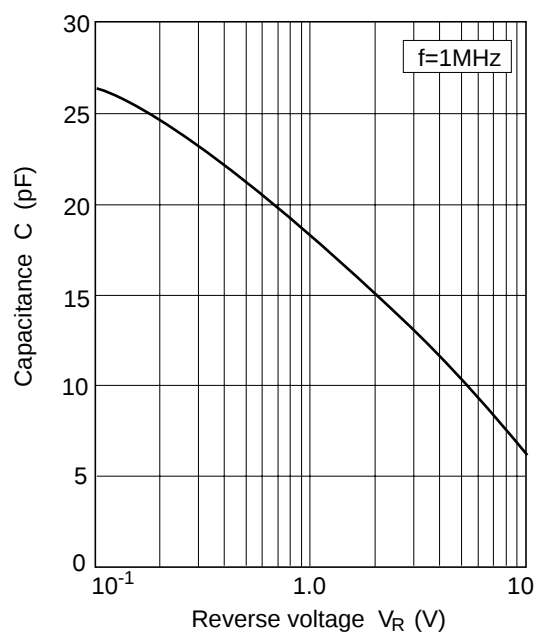


Fig.2 Capacitance Vs. Reverse voltage

HVU89

Package Dimensions

Unit : mm

