
HVU17

Variable Capacitance Diode for VCO

HITACHI

ADE-208-021C(Z)

Rev 3

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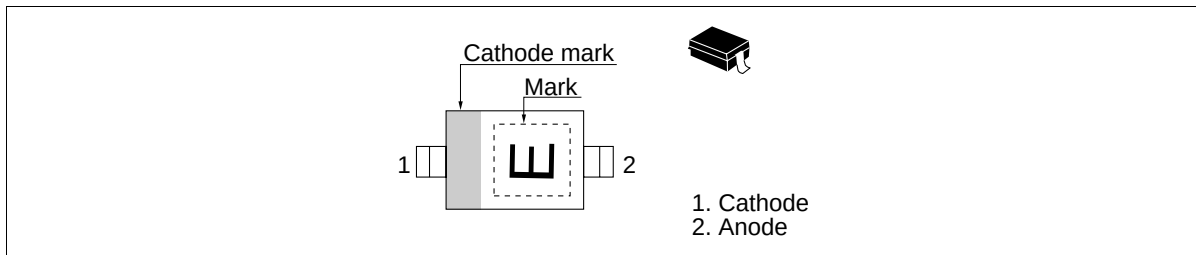
Features

- Good linearity of C-V curve.
- To be usable at low voltage.
- High figure of merit.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU17	E	URP

Outline



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	VR	15	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 voltage	VR	15.0	∞	∞	V	IR = 10μA
Reverse current	IR	∞	∞	100	nA	VR = 9V
Capacitance	C1	50.0	∞	85.0	pF	VR = 1V, f = 1 MHz
	C3	16.1	∞	27.3		VR = 3V, f = 1 MHz
	C4.5	5.23	∞	8.84		VR = 4.5V, f = 1 MHz
Capacitance ratio	n	5.60	∞	∞	∞	C1/ C4.5
Figure of merit	Q	50	∞	∞	∞	VR = 2.5V, f = 10 MHz
ESD-Capability*1	∞	80	∞	∞	V	C=200pF , Both forward and reverse direction 1 pulse.

Notes 1. Failure criterion ; IR ≥ 100nA at VR =9 V

Main Characteristic

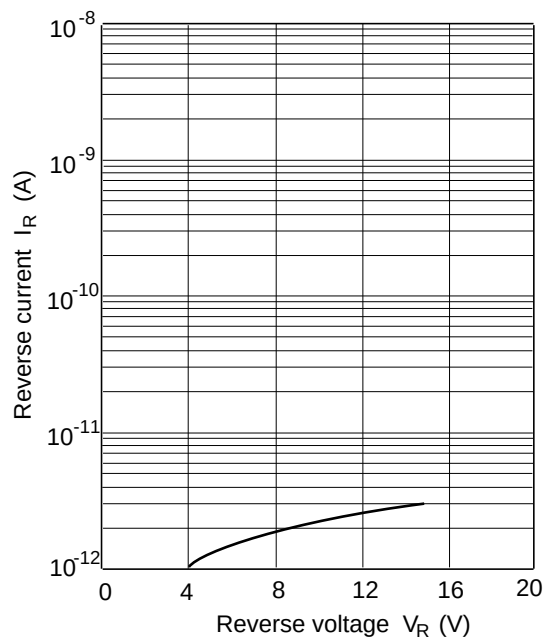


Fig.1 Reverse current Vs. Reverse voltage

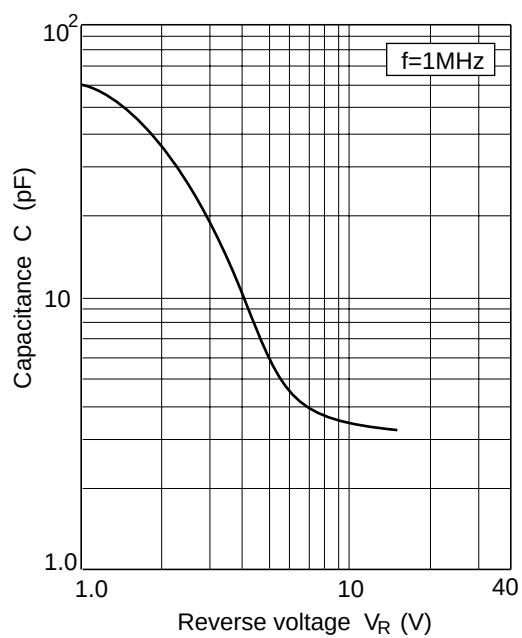


Fig.2 Capacitance Vs. Reverse voltage

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Package Dimensions

Unit : mm

