
HVU365

Variable Capacitance Diode for VCXO

HITACHI

ADE-208-371A (Z)
Rev. 1

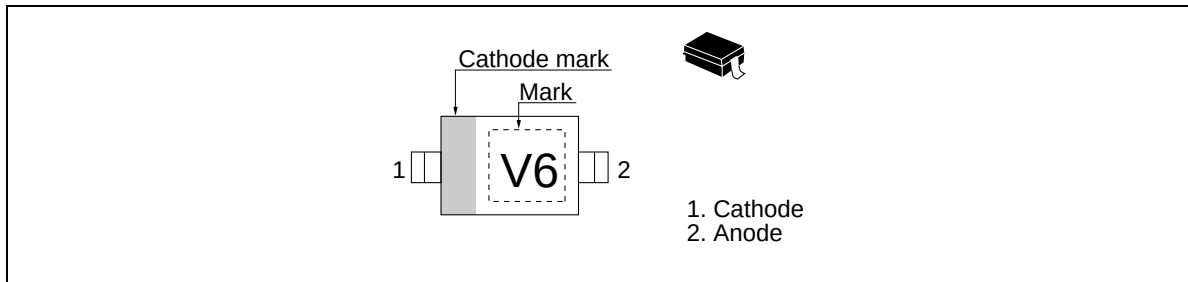
Features

- High capacitance ratio and good C-V linearity.
- To be usable at low voltage.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU365	V6	URP

Outline



HVU365

Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 10V$
	I_{R2}	—	—	100		$V_R = 10V, T_a = 60°C$
Capacitance	C_1	27.05	—	28.55	pF	$V_R = 1V, f = 1MHz$
	C_4	6.05	—	7.55		$V_R = 4V, f = 1MHz$
Capacitance ratio	n	3.0	—	—	—	C_1/C_4
Series resistance	r_s	—	—	1.5	Ω	$V_R = 4V, f = 100MHz$
ESD-Capability	—	80	—	—	V	*C = 200pF, Both forward and reverse direction 1 pulse.

Note: Failure criterion; $I_R \geq 20nA$ at $V_R = 10V$

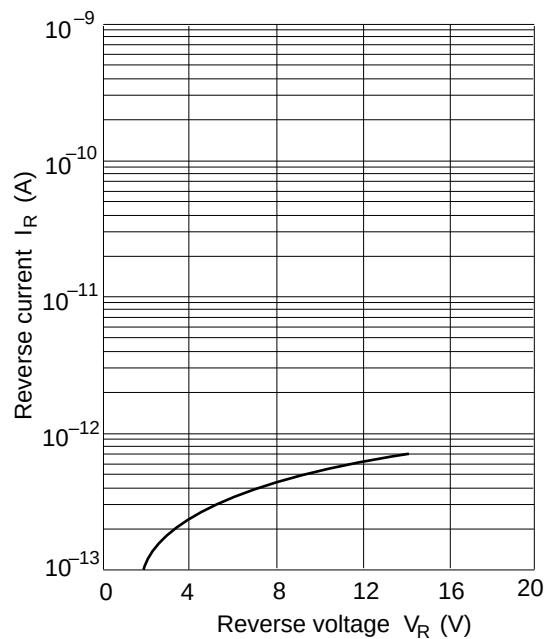


Fig.1 Reverse current Vs. Reverse voltage

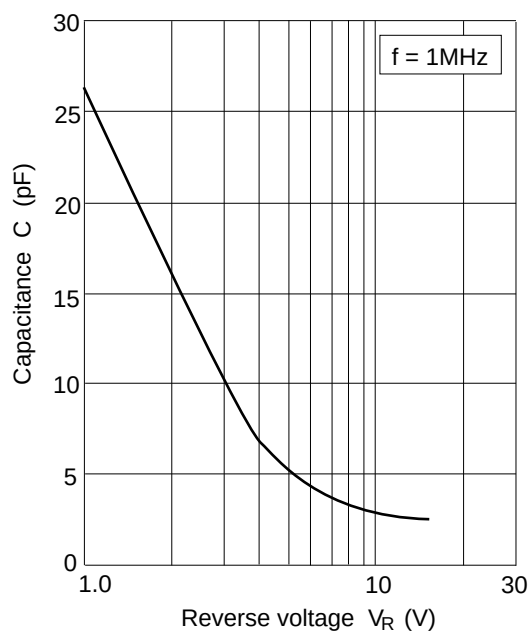


Fig.2 Capacitance Vs. Reverse voltage

HVU365

Package Dimensions

