

HVU357

Variable Capacitance Diode for VCO

HITACHI

Preliminary
Rev. 3
Feb. 1993

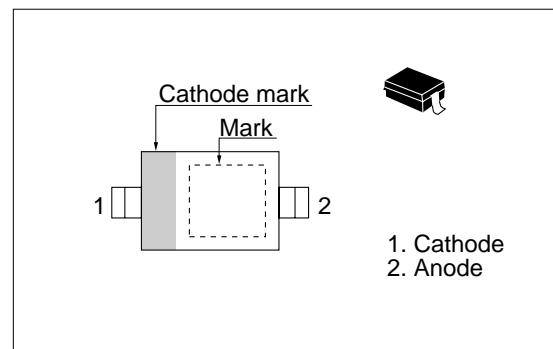
Features

- Low series resistance. ($r_s=0.35\Omega$ max)
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU357	J	URP

Outline

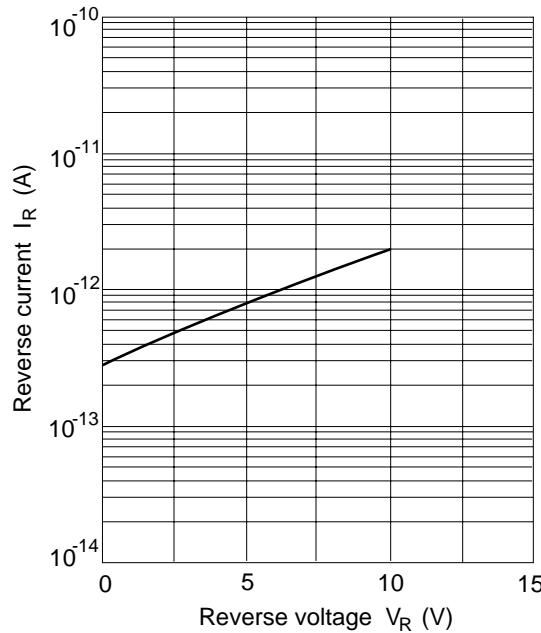


Absolute Maximum Ratings ($T_a = 25^\circ C$)

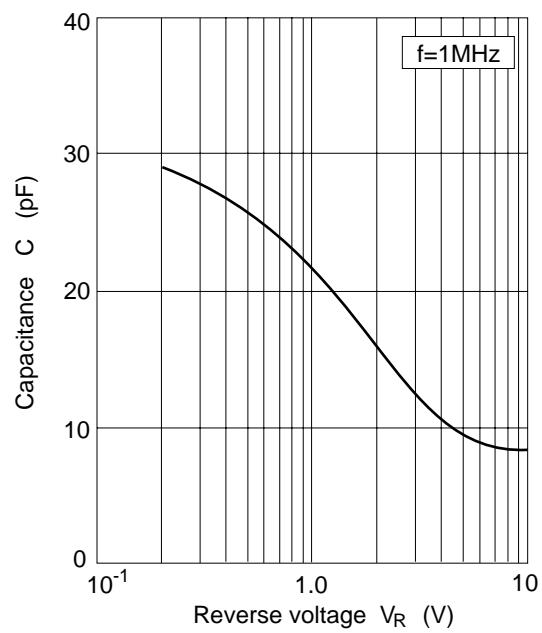
Item	Symbol	Value	Unit
Reverse voltage	V_R	10	V
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 to +125	°C

Electrical Characteristics ($T_a = 25^\circ C$)

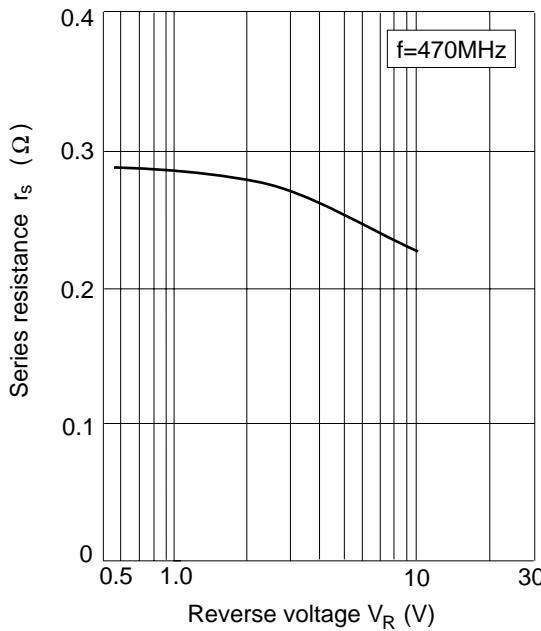
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 10 V$
	I_{R2}	—	—	100		$V_R = 10 V, T_a = 60^\circ C$
Capacitance	C_1	19.5	—	23.5	pF	$V_R = 1 V, f = 1 MHz$
	C_2	14.3	—	17.6		$V_R = 2 V, f = 1 MHz$
Capacitance ratio	n	1.3	—	—	—	C_1 / C_2
Series resistance	r_s	—	—	0.35	Ω	$V_R = 1 V, f = 470MHz$

HVU357

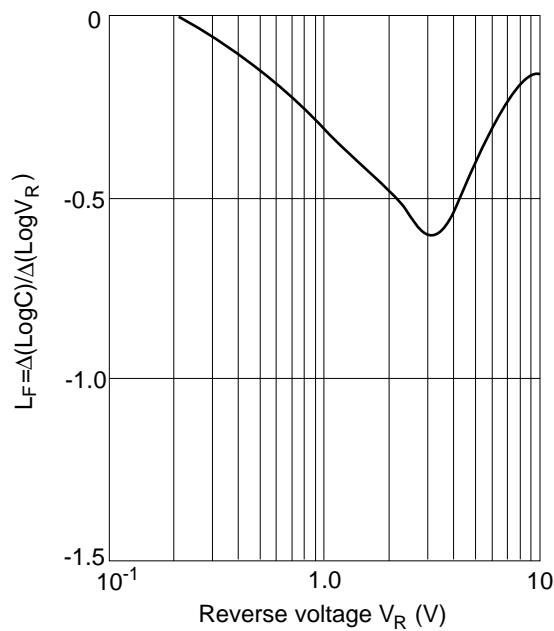
**Fig.1 Reverse current Vs.
Reverse voltage**



**Fig.2 Capacitance Vs.
Reverse voltage**



**Fig.3 Series resistance
Vs. Reverse voltage**



**Fig.4 Linearity factor Vs.
Reverse voltage**

Package Dimensions

Unit: mm

