

HVU355

Variable Capacitance Diode for VCO

HITACHI

Preliminary

Rev. 1

May. 1993

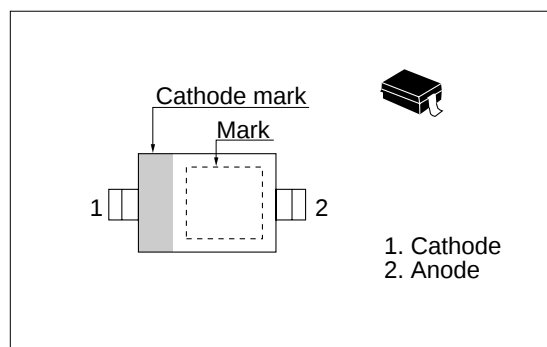
Features

- Low series resistance. ($r_s=0.6\Omega$ max)
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU355	U	URP

Outline



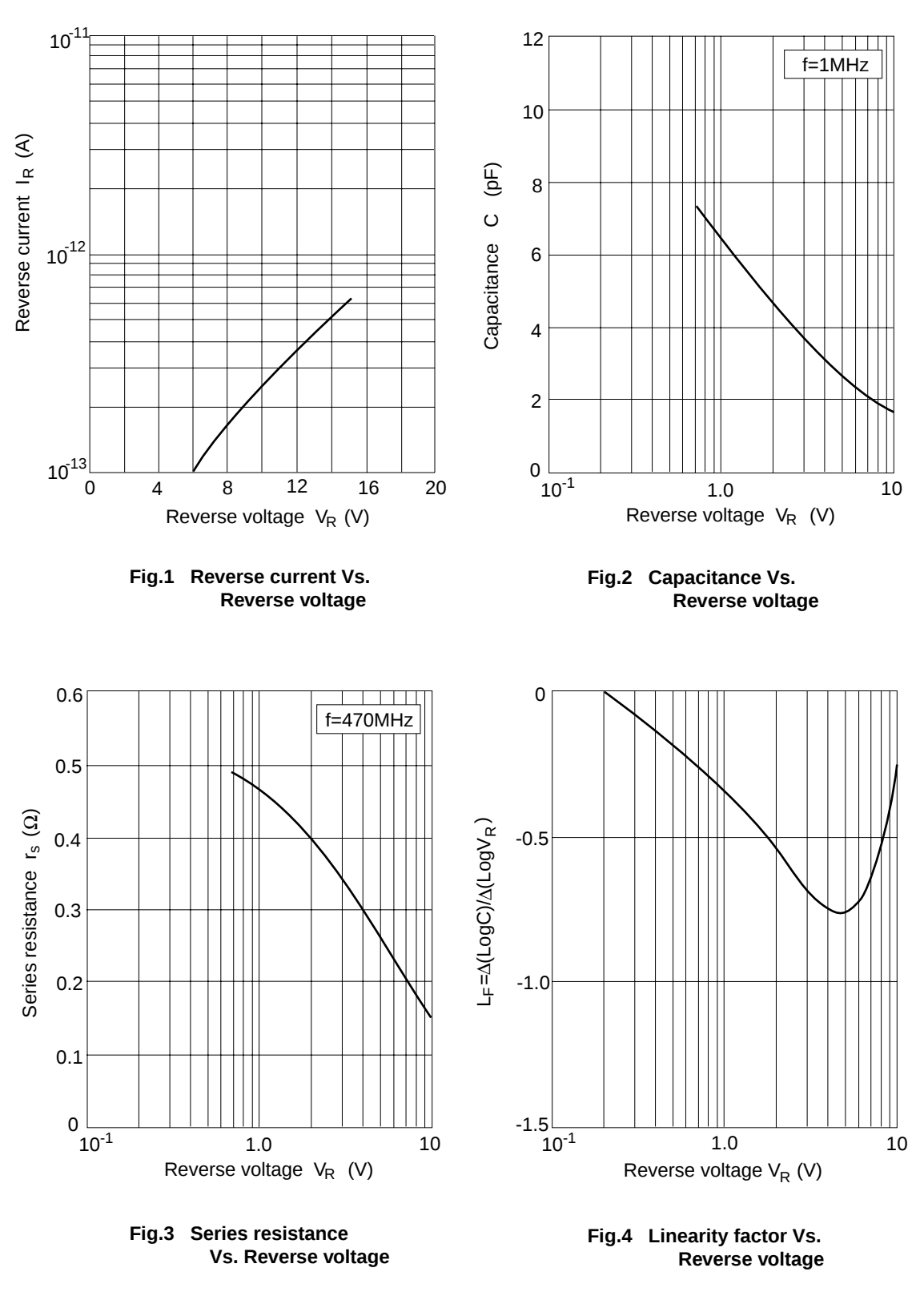
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Item	Symbol	Value	Unit
Reverse voltage	V_R	15	V
Junction temperature	T_j	125	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +125	$^\circ\text{C}$

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

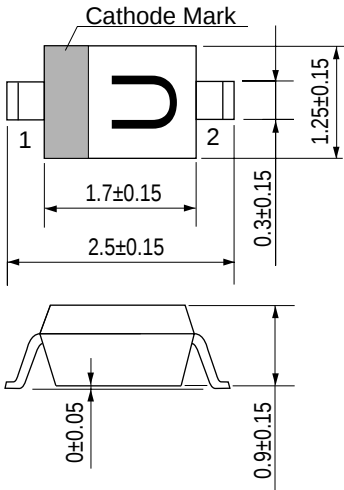
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I_{R1}	—	—	10	nA	$V_R = 15\text{ V}$
	I_{R2}	—	—	100		$V_R = 15\text{ V}$, $T_a = 60^\circ\text{C}$
Capacitance	C_1	6.40	—	7.40	pF	$V_R = 1\text{ V}$, $f = 1\text{ MHz}$
	C_4	2.75	—	3.25		$V_R = 4\text{ V}$, $f = 1\text{ MHz}$
Capacitance ratio	n	2.0	—	—	—	C_1 / C_4
Series resistance	r_s	—	—	0.6	Ω	$V_R = 1\text{ V}$, $f = 470\text{ MHz}$

HVU355



Package Dimensions

Unit: mm



- 1 Cathode
- 2 Anode

HITACHI Code	URP
JEDEC Code	—
EIAJ Code	—
Weight (g)	0.004