

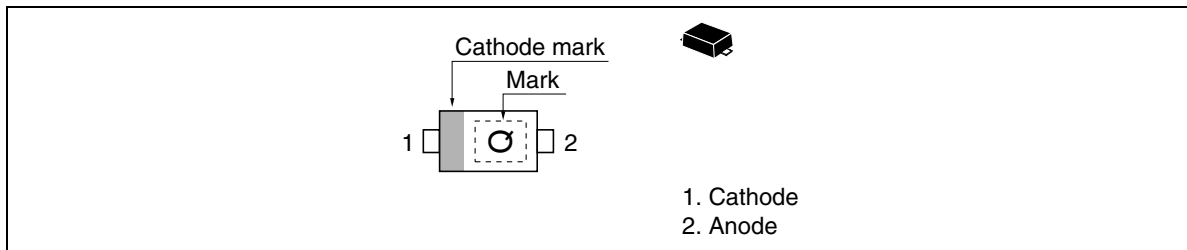
## Features

- Low series resistance and good C-V linearity.
- Ultra small Flat Package (UFP) is suitable for surface mount design.

## Ordering Information

Type No.	Laser Mark	Package Code
HVC202A	Q	UFP

## Pin Arrangement



# HVC202A

## Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	34	V
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-55 to +125	°C

## Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	—	—	10	nA	V <sub>R</sub> = 32 V
	I <sub>R2</sub>	—	—	100		V <sub>R</sub> = 32 V, Ta = 60°C
Capacitance	C <sub>2</sub>	14.11	—	16.47	pF	V <sub>R</sub> = 2 V, f = 1 MHz
	C <sub>25</sub>	2.06	—	2.35		V <sub>R</sub> = 25 V, f = 1 MHz
Capacitance ratio	n	6.20	—	—	—	C <sub>2</sub> /C <sub>25</sub>
Series resistance	r <sub>s</sub>	—	—	0.57	Ω	V <sub>R</sub> = 5 V, f = 470 MHz
Matching error	ΔC/C *1	—	—	2.00	%	V <sub>R</sub> = 2 to 25 V, f = 1 MHz

Note: 1. C.C system (Continuous Connected taping system) enable to make any 10 pcs of ΔC/C continuous in a reel , expect extention to another group.  
Calculate Matching Error,

$$\Delta C/C = \frac{(C_{max} - C_{min})}{C_{min}} \times 100 (\%)$$