

Variable Capacitance Diode for VCXO



ADE-208-023C(Z) Rev 3 Dec. 1998

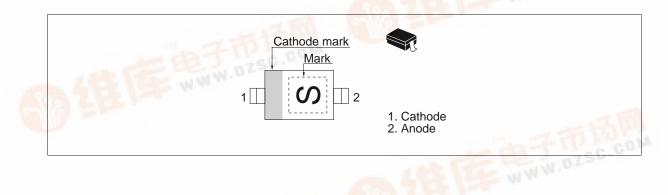
#### Features

- 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	
HVU359	S	URP	
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#### Outline





# Absolute Maximum Ratings (Ta = $25^{\circ}$ C)

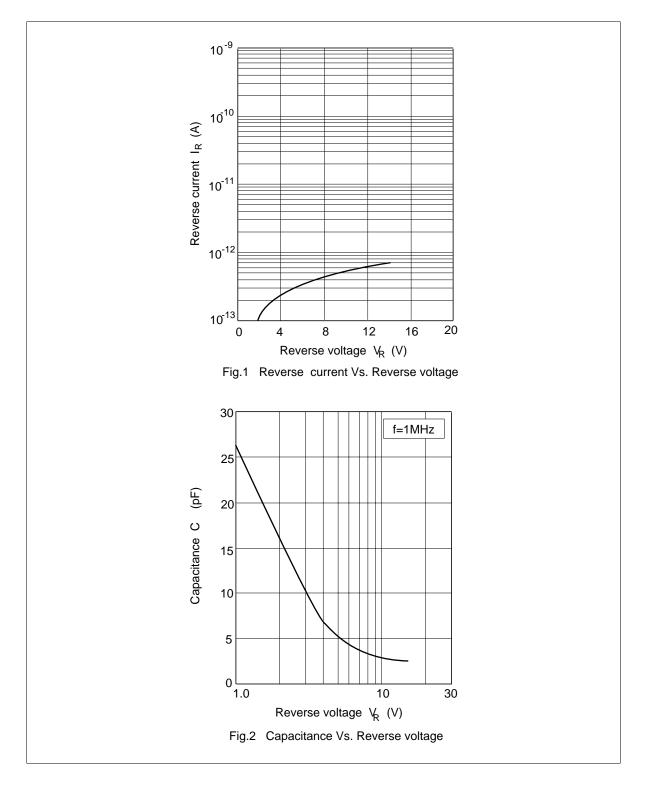
Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	15	V
Junction temperature	Тј	125	°C
Storage temperature	Tstg	-55 to +125	°C

# Electrical Characteristics (Ta = $25^{\circ}$ C)

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	$V_R = 10V$
	I <sub>R2</sub>	—		100		V <sub>R</sub> = 10V, Ta = 60 °C
Capacitance	<b>C</b> <sub>1</sub>	24.8	_	29.8	pF	$V_R = 1V$ , f = 1 MHz
	<b>C</b> <sub>4</sub>	6.0		8.3		$V_{R} = 4V, f = 1 MHz$
Capacitance ratio	n	3.0	—	—	—	C <sub>1</sub> / C <sub>4</sub>
Series resistance	r <sub>s</sub>	—	_	1.5	Ω	$V_{R} = 4V, f = 100 \text{ MHz}$
ESD-Capability <sup>*1</sup>	—	80	_		V	C=200pF , Both forward and reverse direction 1 pulse.

Notes 1. Failure criterion ; IR  $\ge$  20nA at VR =10 V

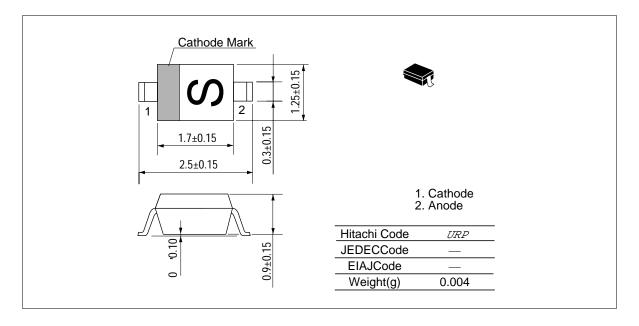
#### **Main Characteristic**



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# **Package Dimensions**

Unit : mm



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