

HVU359 Variable Capacitance Diode for VCO

REJ03G0507-0500 (Previous: ADE-208-023D) Rev.5.00 Jan 28, 2005

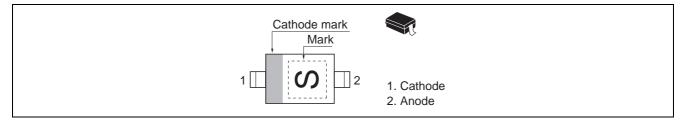
Features

- 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	Renesas Code	Previous Code	
HVU359	S	PTSP0002ZA-A	URP	

Pin Arrangement





Absolute Maximum Ratings

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

Item	Symbol	Value	Unit
Reverse voltage	V _R	15	V
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

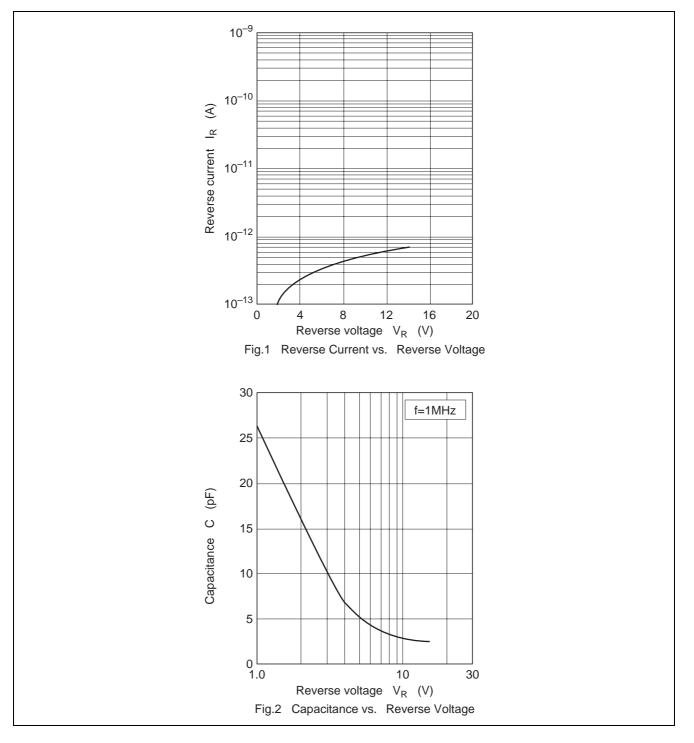
Electrical Characteristics

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I _{R1}	_	—	10	nA	V _R = 10 V
	I _{R2}	_	—	100		V _R = 10 V, Ta = 60°C
Capacitance	C ₁	24.8	—	29.8	pF	V _R = 1 V, f = 1 MHz
	C ₄	6.0	_	8.3		V _R = 4 V, f = 1 MHz
Capacitance ratio	n	3.0	—	_	_	C ₁ /C ₄
Series resistance	rs	_	_	1.5	Ω	V _R = 4 V, f = 100 MHz
ESD-Capability *1	—	200			V	C = 200 pF, R = 0 Ω , Both forward
						and reverse direction 1 pulse.

Note: 1. Failure criterion ; $I_R \geq 20 \text{ nA}$ at V_R =10 V

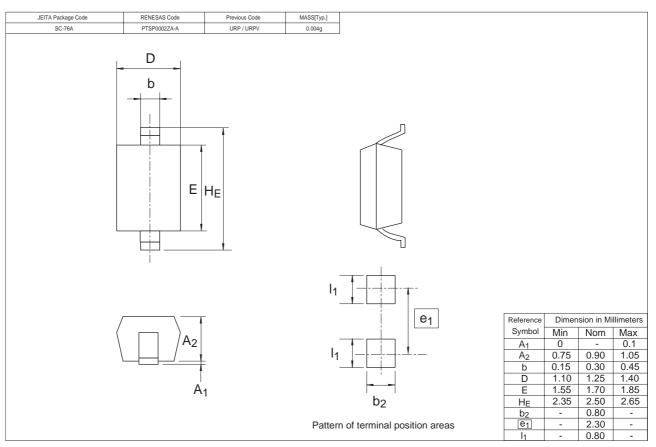


Main Characteristic





Package Dimensions





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April 1st, 2010 Renesas Electronics Corporation

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