

HVU17

Variable Capacitance Diode for VCO

REJ03G0079-0400Z

(Previous: ADE-208-021C)

Rev.4.00 Sep.17.2003

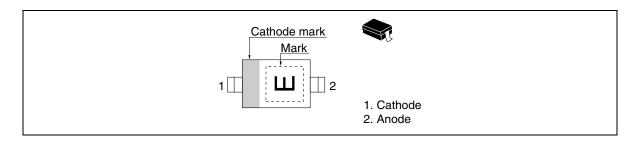
Features

- Good linearity of C-V curve.
- To be usable at low voltage.
- High figure of merit.
- Ultra small Resin Package (URP) is suitable for surface mount design.

Ordering Information

Type No.	Laser Mark	Package Code
HVU17	Е	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

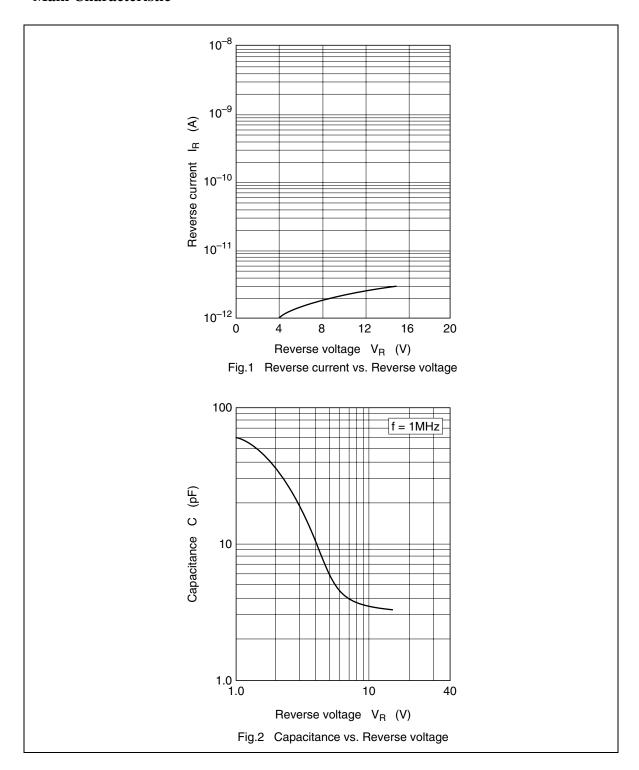
Electrical Characteristics

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

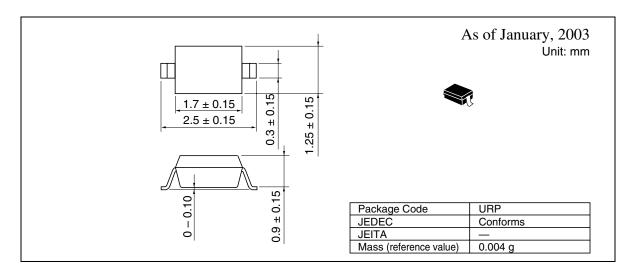
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse voltage	V_R	15.0	_	_	٧	I _R = 10 μA
Reverse current	I _R		_	100	nA	V _R = 9 V
Capacitance	C ₁	50.0	_	85.0	pF	V _R = 1 V, f = 1 MHz
	C ₃	16.1	_	27.3		V _R = 3 V, f = 1 MHz
	C _{4.5}	5.23	_	8.84		V _R = 4.5 V, f = 1 MHz
Capacitance ratio	n	5.60	_	_	_	C ₁ /C _{4.5}
Figure of merit	Q	50	_	_	_	V _R = 2.5 V, f = 10 MHz
ESD-Capability *1	_	80	_	_	V	C = 200 pF, Both forward and reverse direction 1 pulse.

Note: 1. Failure criterion; $I_R \ge 100$ nA at $V_R = 9$ V

Main Characteristic



Package Dimensions



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