

## HVU350B

### Variable Capacitance Diode for VCO

REJ03G0080-0200Z  
(Previous: ADE-208-430A)  
Rev.2.00  
Sep.17.2003

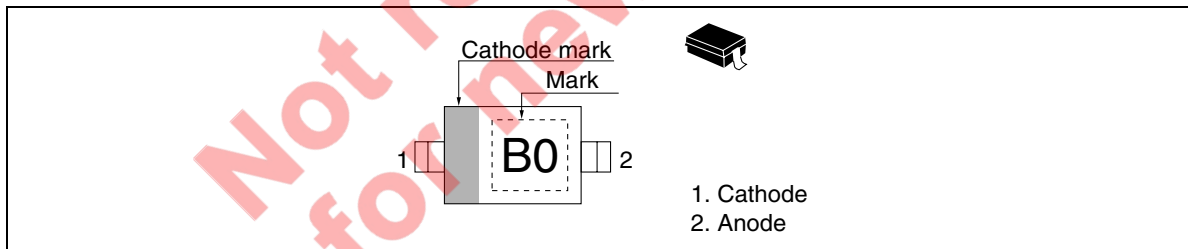
#### Features

- High capacitance ratio. ( $n = 2.8$  min)
- Low series resistance. ( $r_s = 0.5 \Omega$  max)
- Good C-V linearity.
- Ultra small Resin Package (URP) is suitable for surface mount design.

#### Ordering Information

Type No.	Laser Mark	Package Code
HVU350B	B0	URP

#### Pin Arrangement



### Absolute Maximum Ratings

(Ta = 25°C)

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

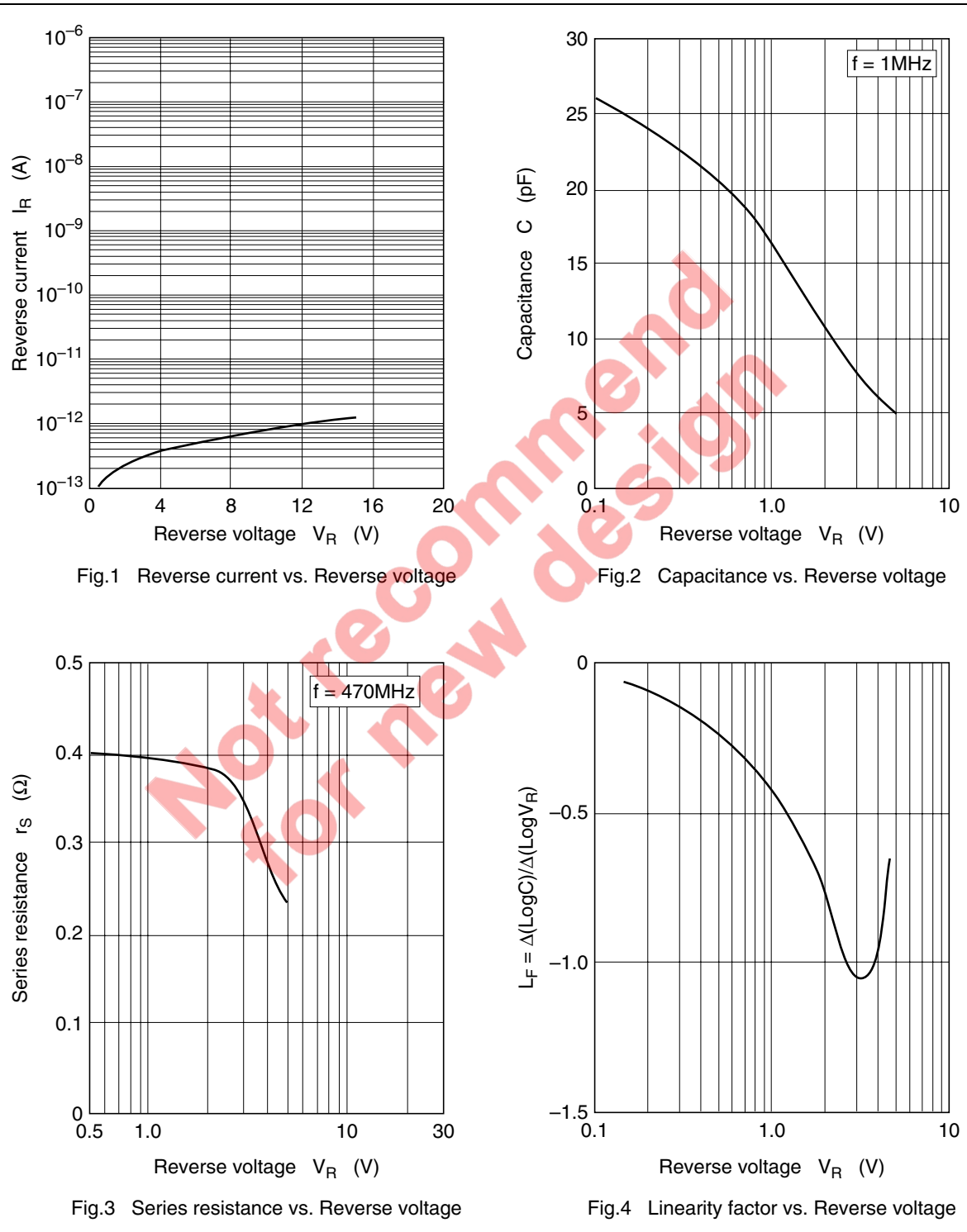
### Electrical Characteristics

(Ta = 25°C)

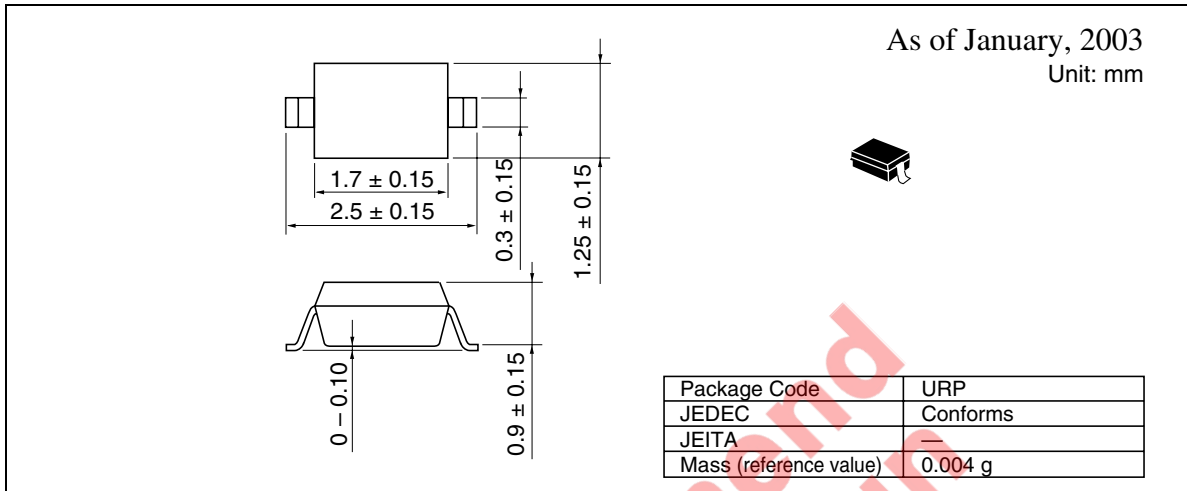
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse current	$I_{R1}$	—	—	10	nA	$V_R = 15\text{ V}$
	$I_{R2}$	—	—	100		$V_R = 15\text{ V}, T_a = 60^\circ\text{C}$
Capacitance	$C_1$	15.5	—	17.0	pF	$V_R = 1\text{ V}, f = 1\text{ MHz}$
	$C_4$	5.0	—	6.0		$V_R = 4\text{ V}, f = 1\text{ MHz}$
Capacitance ratio	$n$	2.8	—	—	—	$C_1/C_4$
Series resistance	$r_s$	—	—	0.5	$\Omega$	$V_R = 1\text{ V}, f = 470\text{ MHz}$

Not recommended for new design

Main Characteristic



Package Dimensions



Not recommended  
for new design

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To our customers,

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Not recommended  
for new design

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