To our customers,

## Old Company Name in Catalogs and Other Documents

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April 1<sup>st</sup>, 2010 Renesas Electronics Corporation

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10



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# RENESAS

# HVC363B

# Variable Capacitance Diode for TV tuner

REJ03G0100-0100Z (Previous: ADE-208-420) Rev.1.00 Sep.29.2003

### Features

- Low matching error. ( $\Delta C/C = 2.0\%$  max)
- High capacitance ratio. (n = 13.7 min)
- Low series resistance. (rs =  $0.75 \Omega \text{ max}$ )
- <u>U</u>ltra small <u>Flat Package</u> (UFP) is suitable for surface mount design.

### **Ordering Information**

Type No.	Laser Mark	Package Code
HVC363B	A3	UFP

### **Pin Arrangement**

Cathode mark	
	1. Cathode 2. Anode



#### **Absolute Maximum Ratings**

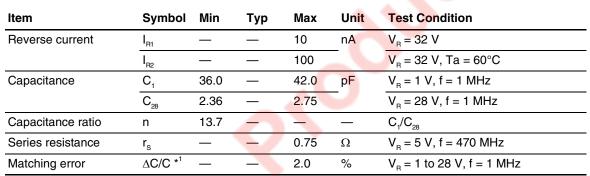
 $(Ta = 25^{\circ}C)$ 

Symbol	Value	Unit	
V <sub>BM</sub> *1	35	V	
V <sub>R</sub>	32	V	
Tj	125	°C	
Tstg	-55 to +125	°C	
	V <sub>RM</sub> * <sup>1</sup> V <sub>R</sub> Tj	V <sub>RM</sub> *1         35           V <sub>R</sub> 32           Tj         125	V <sub>RM</sub> *1         35         V           V <sub>R</sub> 32         V           Tj         125         °C

Note: 1.  $R_L = 10 \text{ k}\Omega$ 

### **Electrical Characteristics**

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

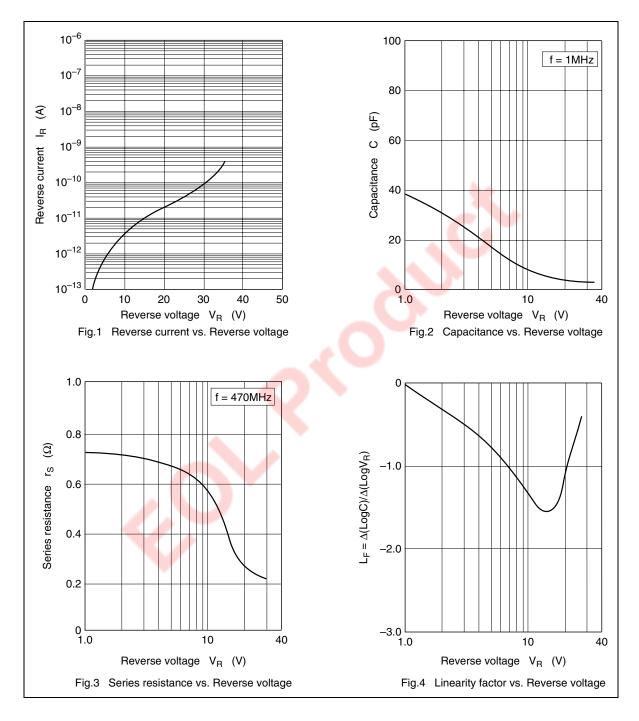


Note: 1. C.C system (Continuous Connected taping system) enable to make any 10 pcs of ∆C/C continuous in a reel, expect extention to another group. Calculate Matching Error,

$$\Delta C/C = \frac{(Cmax - Cmin)}{Cmin} \times 100 \ (\%)$$



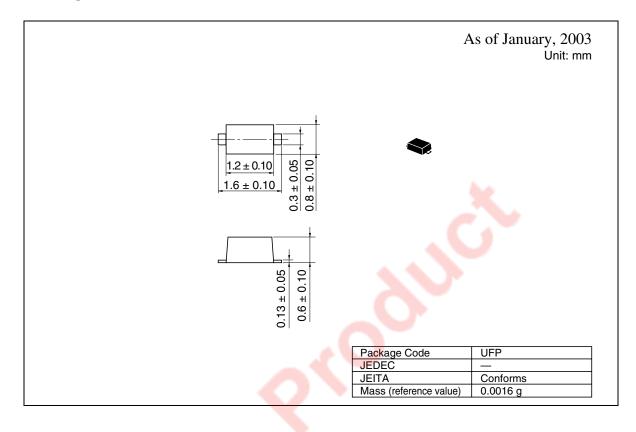
### **Main Characteristic**





#### HVC363B

### **Package Dimensions**





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#### Keep safety first in your circuit designs!

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