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## HVB387BWK

Variable Capacitance Diode for VCO



ADE-208-1174A (Z) Rev. 1 Apr. 2001

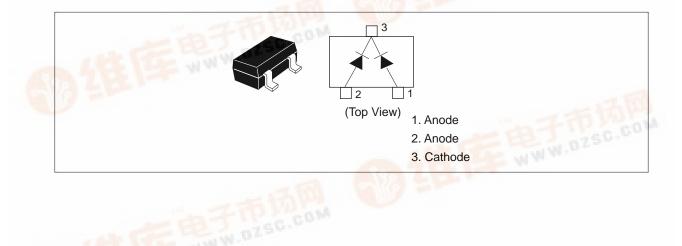
#### Features

- Low capacitance and to be usable at GHz.
- High capacitance ratio. (n = 1.8 min)•
- Low series resistance. ( $r_s = 1.2 \Omega max$ ) •
- CMPAK package is suitable for high density surface mounting and high speed assembly. •

# Ordering Information

Type No.	Laser Mark	Package Code
HVB387BWK	V5	СМРАК
		- H T Lec. con
Pin Arrangement		

#### **Pin Arrangement**



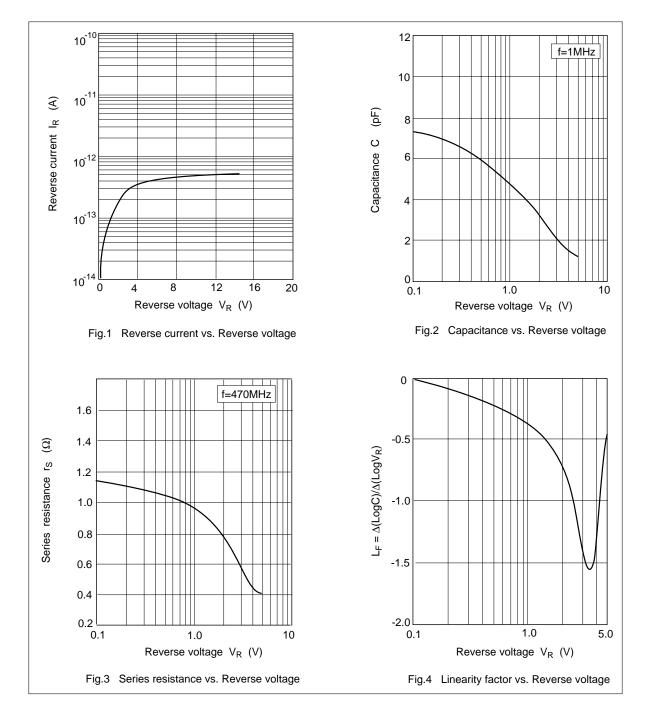


## **Absolute Maximum Ratings** (Ta = $25^{\circ}$ C)

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°C)

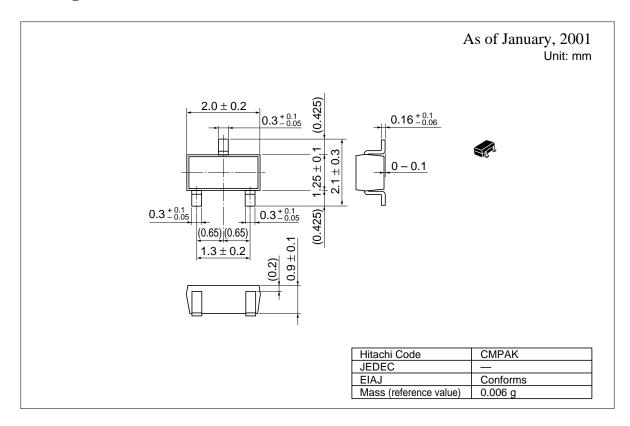
Item	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse current	I <sub>R1</sub>	_	_	10	nA	$V_R = 15 V$
	I <sub>R2</sub>	—	_	100	_	V <sub>R</sub> = 15 V, Ta = 60°C
Capacitance	<b>C</b> <sub>1</sub>	4.50	_	5.00	pF	$V_{R} = 1 V, f = 1 MHz$
	C <sub>3</sub>	1.85		2.80		V <sub>R</sub> = 3 V, f = 1 MHz
Capacitance ratio	n	1.8		2.6	_	C <sub>1</sub> /C <sub>3</sub>
Series resistance	r <sub>s</sub>			1.2	Ω	V <sub>R</sub> = 1 V, f = 470 MHz



#### **Main Characteristic**

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### **Package Dimensions**



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