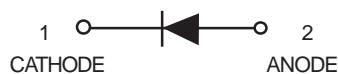
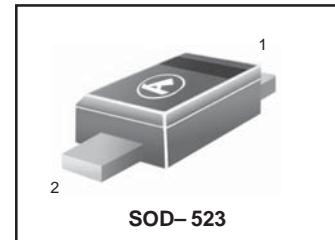


Variable Capacitance Diode for VCO

HVC369B

DEVICE MARKING

HVC369B = B3

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

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

 Notes 1. $R_L=10\text{k}\Omega$
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

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	4.65	-	5.15	pF	$V_R = 1\text{V}, f = 1 \text{MHz}$
	C_4	1.85	-	2.15		$V_R = 4\text{V}, f = 1 \text{MHz}$
Capacitance ratio	n	2.3	-	-	-	C_1 / C_4
Series resistance	r_s	-	-	0.5	Ω	$V_R = 1\text{V}, f = 470 \text{MHz}$

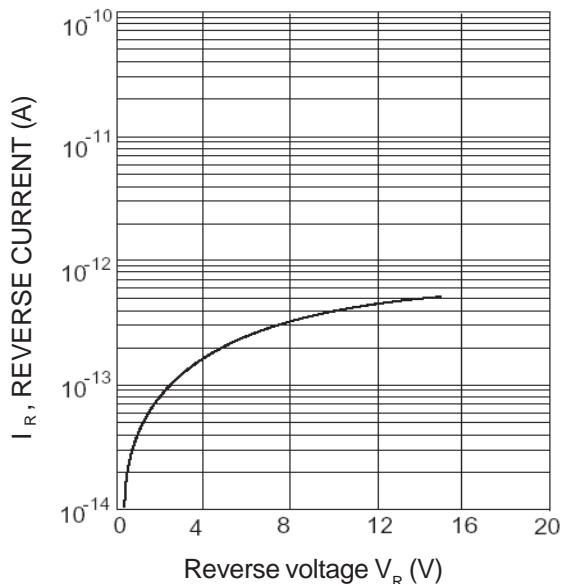
HVC369B


Fig.1 Reverse current Vs. Reverse voltage

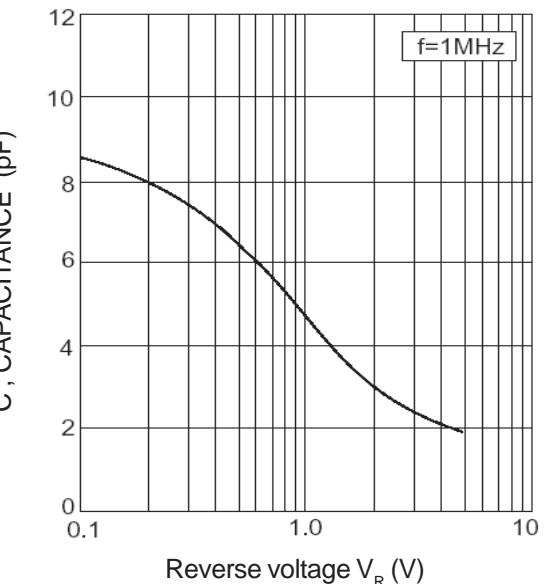


Fig.2 Capacitance Vs. Reverse voltage

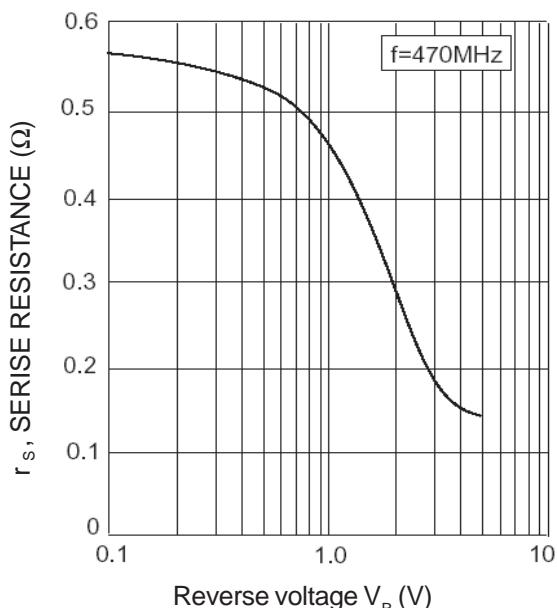


Fig.3 Series resistance Vs. Reverse voltage

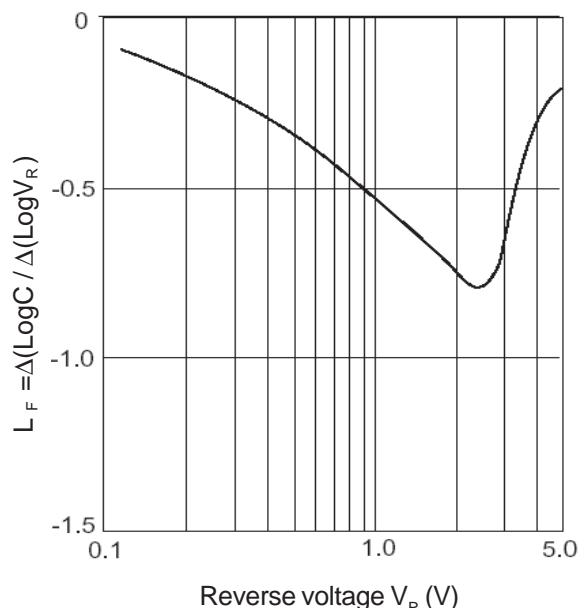


Fig.4 Linearity factor Vs. Reverse voltage