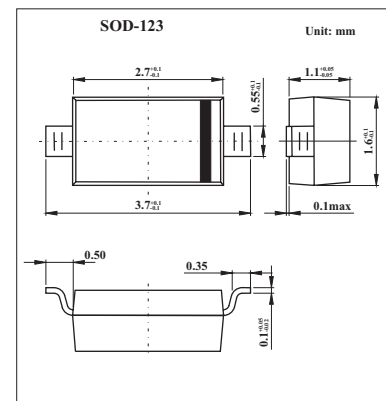


## Variable Capacitance Diode for VCO

## HVD350B

## ■ Features

- High capacitance ratio. ( $n = 2.80$  min)
- Low series resistance. ( $r_s = 0.50 \Omega$  max)
- Good C-V linearity.
- Super small Flat Lead Package (SFP) is suitable for surface mount design.

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

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

■ Electrical Characteristics  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse current	IR1	$V_R = 15\text{ V}$			10	nA
	IR2	$V_R = 15\text{ V}, T_a = 60^\circ\text{C}$			100	
Capacitance	C1	$V_R = 1\text{ V}, f = 1\text{ MHz}$	15.5		17	pF
	C4	$V_R = 4\text{ V}, f = 1\text{ MHz}$	5		6	
Capacitance ratio	n	$C_1 / C_4$	2.8			
Series resistance	$r_s$	$V_R = 1\text{ V}, f = 470\text{ MHz}$			0.5	$\Omega$

## ■ Marking

Marking	A
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