



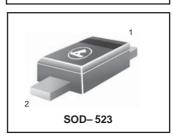
Variable Capacitance Diode for VCXO

FEATURES

- High capacitance ratio and good C-V linearity.
- To be usable at low voltage.
- Ultra small Flat Package (UFP) is suitable for surface mount design.



HVC359



DEVICE MARKING

HVC359 = S

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

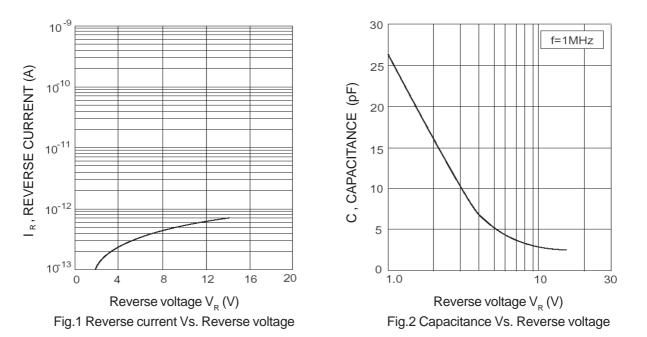
ltem	Symbol	Value	Unit
Reversevoltage	V _R	15	V
Junction temperature	T _i	125	°C
Storage temperature	T _{stg}	- 55 to +125	°C

ELECTRICAL CHARACTERISTICS (T_A=25°C)

ltem	Symbol	Min	Тур	Мах	Unit	Test Condition
Reverse current	I _{R1}	-	-	10	nA	$V_R = 10V$
	I _{R2}	_	_	100		$V_{R} = 10V, T_{A} = 60^{\circ}C$
Capacitance	C ₁	24.8	_	29.8	рF	$V_R = 1V$, f = 1 MHz
	C_4	6.0	_	8.3		$V_R = 4V$, f = 1 MHz
Capacitance ratio	n	3.0	_	_	_	C ₁ / C ₄
Series resistance	r _s	-	-	1.5	Ω	$V_{R} = 4V, f = 100 \text{ MHz}$
ESD-Capability ^{*1}	-	80	_	_	V	C =200pF , Both forward
						and reverse direction
						1 pulse.

Notes 1. Failure criterion ; $I_R \ge 20nA$ at $V_R = 10 V$





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