

## VARIABLE CAPACITANCE DIODE SILICON TYPE

### Application

- . Frequency modulation in FM Radio
- . FM and AFC in communication set

### Features

- . Excellent linearity
- . Low series resistance:  $r_s \leq 0.8\Omega$
- . package:SOD-323



### Maximum ratings

Parameter	Symbol	Rating		Unit
		Min	Max	
Assignment Temperature Range	$T_{amb}$	-55	100	°C
Storage Temperature Range	$T_{atg}$	-55	125	°C
Maximum Reverse voltage	$V_{RM}$		10	V
Junction Temperature	$T_j$		125	°C
Forward voltage( $I_F=20mA$ )	$V_F$		1	V

### Electrical Characteristics(at $T_{amb}=25^\circ C$ )

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Diode capacitance	$C_j$	$V_{R1}=4V$	5	8	12	PF
Reverse Current	$I_R$	$V_R=10V$			100	nA
Forward Voltage	$V_F$	$I_F=20mA$			1	V
series resistance	$r_s$	$F=470MHz, C_0=14pF$			0.8	$\Omega$

