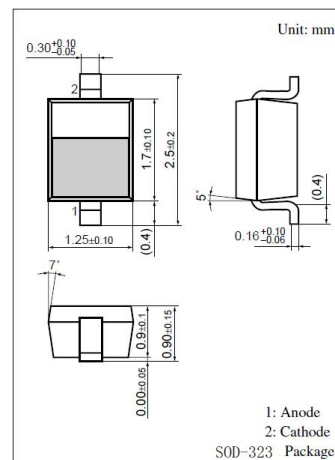




Variable Capacitance Diodes

Features

- Excellent linearity
- Hing Capacitance ratio: $C_{1V}/C_{4V} > 6.2$
- Low series resistance: $r_s \leq 0.6 \Omega$
- 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
Reverse voltage	V_R		28	V

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Diode capacitance	C_1	$V_{R1}=2V$	14.11		17	PF
Diode capacitance	C_2	$V_{R2}=25v$	2.05		2.5	PF
Capacitance ratio	C_1/C_2	$V_{R1}=1V, V_{R2}=4V$	6.2			
Reverse Current	I_R	$V_R=28V$			10	nA
Forward Voltage	V_F	$I_F=20mA$			1	V
Serises resistance	r_s	$F=470MHz, C_0=14pF$		0.45	0.60	Ω

