



1S2638

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

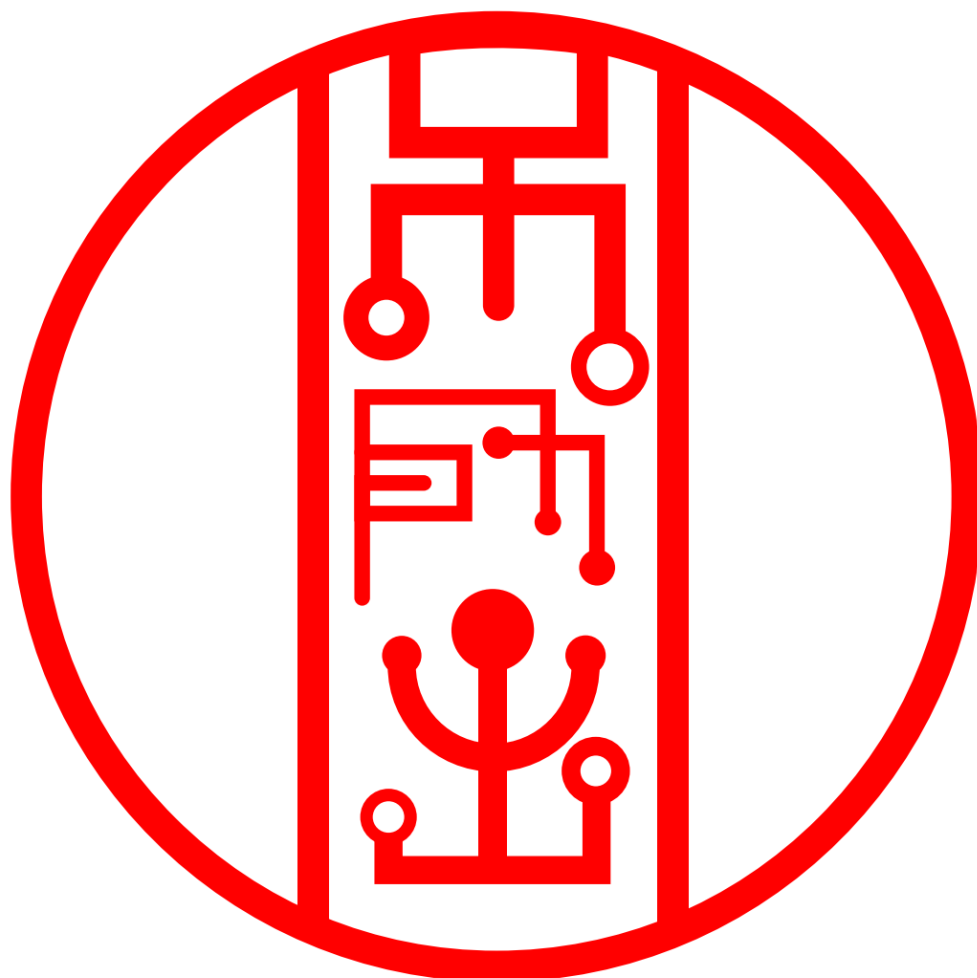


Maximum ratings

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	Ω



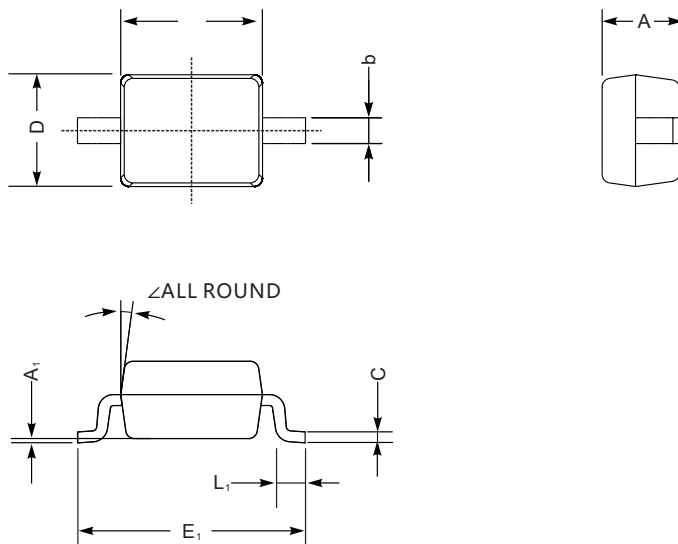


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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



SOD-323 mechanical data

UNIT		A	C	D	E	E ₁	b	L ₁	A ₁	∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2	—	
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	63	100	9.8	7.9	—	

The recommended mounting pad size

