



BA892

Band Switching Diode Silicon Type

Features

- Small total capacitance: $C_T=1.3\text{pF}(\text{Max})$
- Low series resistance: $R_F \leq 0.5\Omega$
- Package: SOD-523

Application

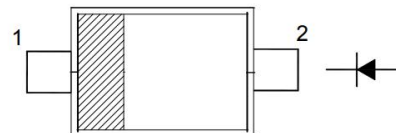
- VHF/UHF Tuner Band Switch

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Min	Max	Unit
Maximum Reverse Voltage	V_{RM}		35	V
Forward Voltage($I_F=20\text{mA}$ s)	V_F		1	V
Junction Temperature	T_J		125	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55	125	$^\circ\text{C}$
Assignment Temperature Range	T_{amb}	-55	100	$^\circ\text{C}$

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Simplified outline SOD-523 and symbol

Electrical Characteristics ($T_A=25^\circ\text{C}$)

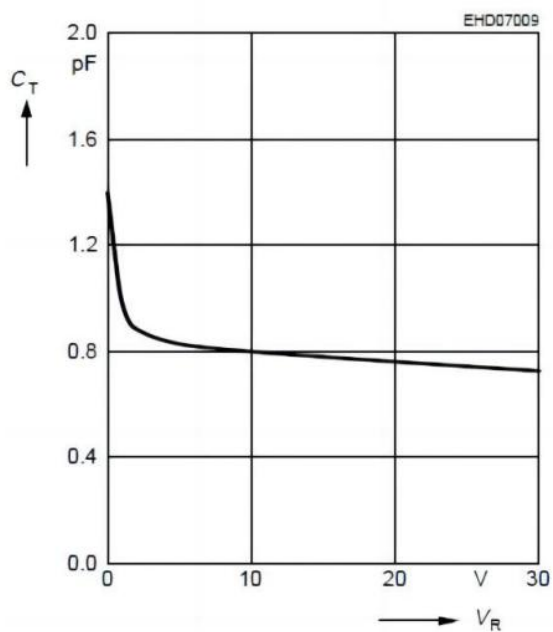
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F=100\text{mA}$			1.0	V
Diode Capacitance	C_T	$V_R=1\text{V}$		0.8	1.3	pF
Reverse Current	I_R	$V_R=20\text{V}$			20	nA
Series Inductance	L_S			0.6		nH
Series Resistance	R_F	$I_F=3\text{mA}, F=100\text{MHz}$		0.50		Ω
		$I_F=10\text{mA}, F=100\text{MHz}$		0.40		



Typical Characteristics

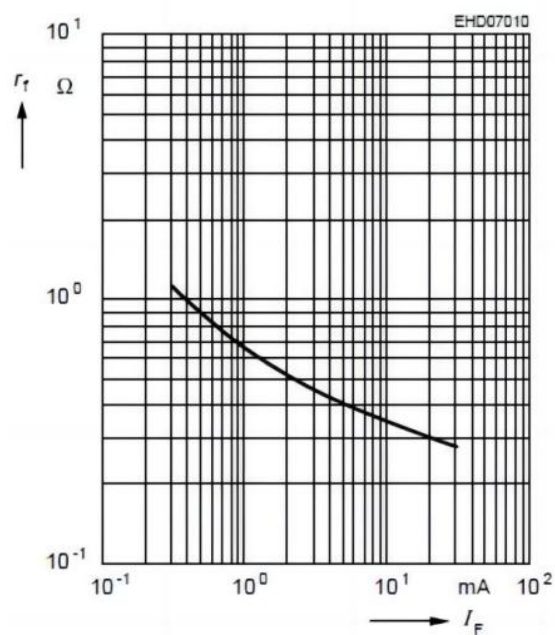
Diode capacitance $C_T = f(V_R)$

$f = 1\text{MHz}$



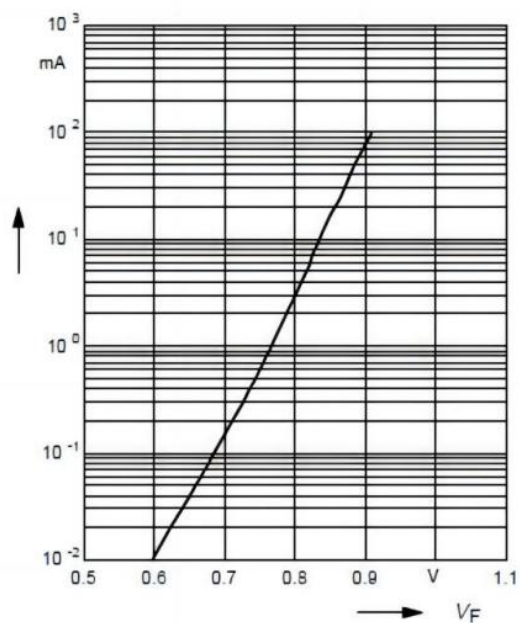
Forward resistance $r_f = f(I_F)$

$f = 100\text{MHz}$



Forward current $I_F = f(V_F)$

$T_A = 25^\circ\text{C}$



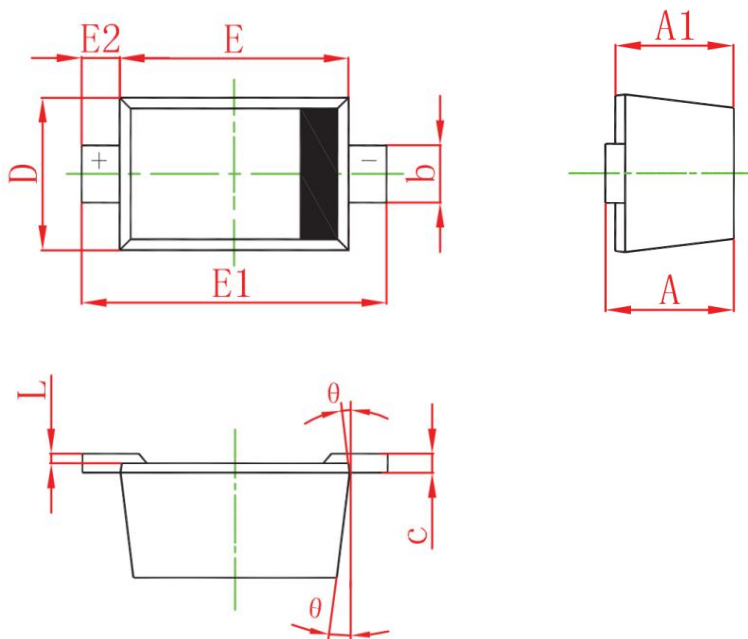


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Package Information

SOD-523

Dimensions in mm



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.770	0.020	0.031
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.200 REF		0.008 REF	
L	0.010	0.070	0.001	0.003
θ	7° REF		7° REF	



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