

RF Band Switching Diode

 Lead(Pb)-Free

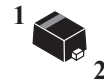
Features:

- * Low Diode Capacitance : 1.2 pF(Max)
- * Low Diode Forward Resistance : 0.9Ω(Max)
- * Small Surface Mounting Type.
- * High Reliability.

Applications:

- * Surface Mount Band-Switching Circuits.
- * Low Loss Band Switching in VHF Television Tuners.

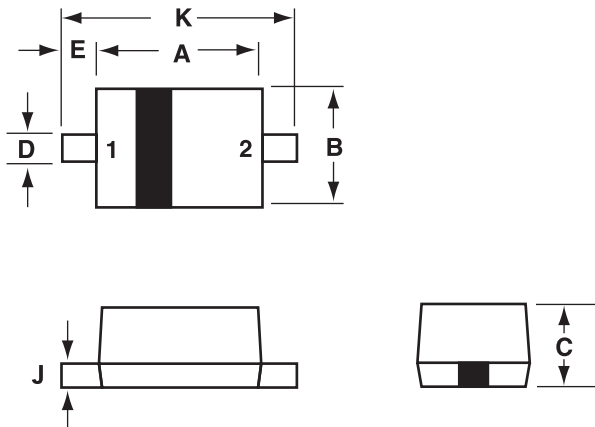
**BAND
SWITCHING DIODE
100m AMPERES
35 VOLTS**



SOD-523

SOD-523 Outline Dimensions

Unit:mm



SOD-523		
Dim	Min	Max
A	1.10	1.30
B	0.70	0.90
C	0.50	0.70
D	0.25	0.35
E	0.15	0.25
J	0.07	0.20
K	1.50	1.70

PIN 1. CATHODE
2. ANODE

Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Value	Unit
DC Reverse Voltage	V_R	35	V
DC Forward Current	I_F	100	mA
Operating junction Temperature Range	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to +125	$^{\circ}\text{C}$

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

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage $I_F=10\text{mA}$	V_F	-	-	1.0	V
Reverse current $V_R=25\text{V}$	I_R	-	-	10	nA
Capacitance between terminals $V_R=6\text{V}, f=1\text{MHz}$	C_T	-	-	1.2	pF
Forward operating resistance $I_F=2\text{mA}, f=100\text{MHz}$	R_f	-	-	0.9	Ω

Device Marking

Item	Marking	Equivalent Circuit diagram
BA277	1	

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

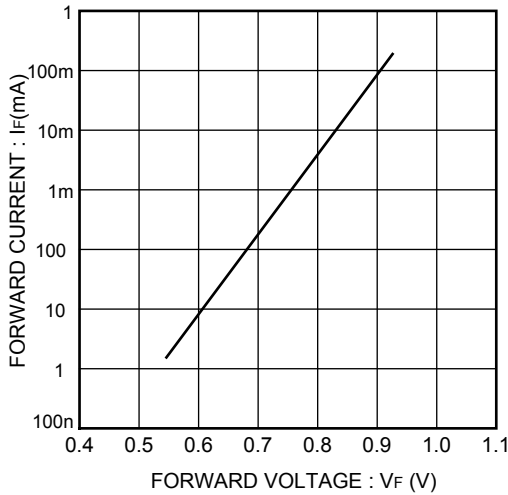


Fig. 1 Forward characteristics

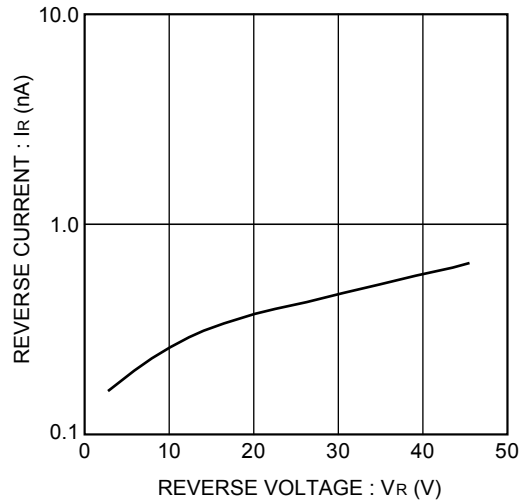


Fig. 2 Reverse characteristics

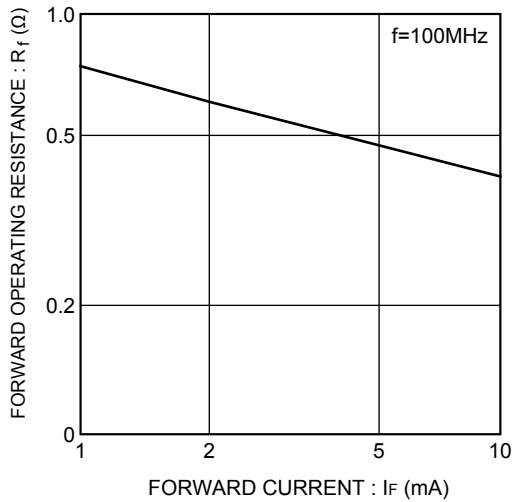


Fig. 4 Forward operating resistance characteristics

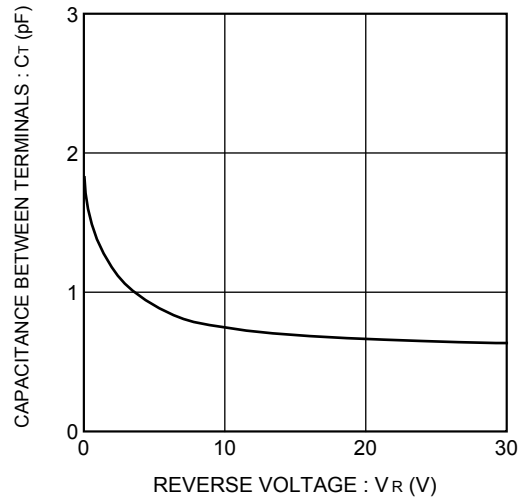


Fig. 3 Capacitance between terminals characteristics