BA782

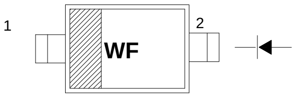
Band Switching Diode

Mechanical Data:

Case: SOD-123 plastic case

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**WF**"
Simplified outline SOD-123 and symbol

Description:

Silicon Epitaxial Planar Diode Switches

For electric band switching in radio and TV tuners in the frequency range of (50 to 1000) MHz.

Absolute Maximum Ratings (Ta=25^{O}C)

Parameter	Symbol	Limits	Unit
Reverse voltage	V_R	35	V
Forward continuous current	I_F	100	mA
Junction temperature	T_J	125	℃
Storage temperature	T_{stg}	-55 to +125	℃

Electrical Characteristics (Ta=25 ^{O}C)

Parameter	Symbol	Min	Typ	Max	Unit	Conditons
Forward voltage	V_F	-	-	1.0	V	I_F=100mA
Leakage current	I_R	-	-	50	nA	V_R=20V
Capacitance	C_{tot}	- -	- -	1.5 1.25	pF	V_R=1V, f=1MHz V_R=3V, f=1MHz
Dynamic forward resistance	r_f	- -	- -	0.7 0.5	Ω	f=(50 to 1000)MHz, I_F=3mA f=(50 to 1000)MHz, I_F=10mA
Series inductance across case	L_S	-	2.5	-	nH	-

Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)

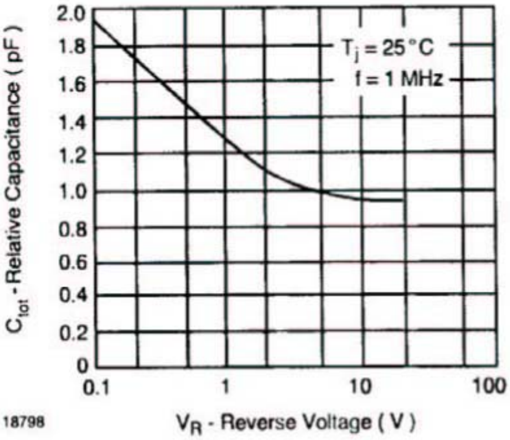


Figure 1. Capacitance vs. Reverse Voltage

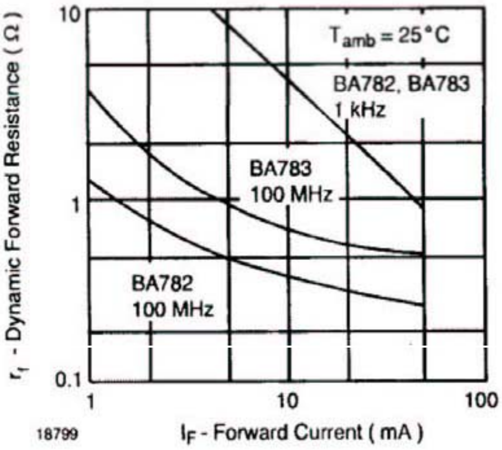


Figure 2. Dynamic Forward Resistance vs. Forward Current