SMD Type

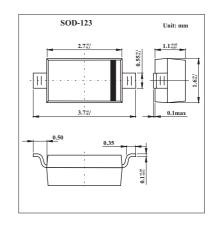
Diodes

Bandswitching Diodes

BA782; BA783

Features

- Silicon Epitaxial Planar Diode Switches
- For high-speed switching application and TV tuners in the frequency range of 50... 1000 MHz. The dynamic for ward resistance is constant and very small over a wide range of frequency and forward current. The reverse capacitance is also small and largely independent of the reverse voltage.
- These diodes are also available in SOD-323 case with the type designations BA782S and BA783S.



■ Absolute Maximum Ratings Ta = 25 °C

Parameter	Symbol	Value	Unit
Reverse Voltage	Vr	35	V
Forward Continuous Current at Tamb = 25 $^\circ \!\!\! \mathbb{C}$	lf	100	m A
Junction Temperature	Ţj	125	°C
Storage Temperature Range	Ts	-55 to +150	°C

■ Electrical Characteristics Ta = 25 °C

Parameter		Symbol	Min	Тур	Max	Unit
Forward Voltage at IF = 100 mA		V(BR)			1	V
Leakage Current at Vr = 20 V		Ir			50	nA
Dynamic Forward Resistance						
at f = 50 to 1000 MHz, IF = 3 mA at f = 50 to 1000 MHz, IF = 10 mA	BA782				0.7	
	BA783	rf			1.2	Ω
	BA782				0.5	
	BA783				0.9	
Capacitance						
at VR = 1 V, f = 1 MHz		Ctot			1.5	рF
at VR = 3 V, f = 1 MHz	BA782	Ctot			1.25	
	BA783				1.2	
Series Inductance across Case		Ls		2.5		nH