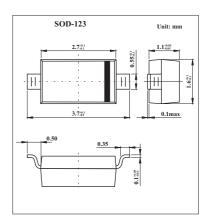
SMD Type Diodes

## 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 = $25^{\circ}\!$	lF	100	m A
Junction Temperature	Tj	125	$^{\circ}$ C
Storage Temperature Range	Ts	-55 to +150	$^{\circ}$ 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	nΑ	
Dynamic Forward Resistance							
at f = 50 to 1000 MHz, IF = 3 mA	BA782				0.7		
	BA783	rf			1.2	Ω	
at f = 50 to 1000 MHz, IF = 10 mA	BA782				0.5		
	BA783				0.9		
Capacitance							
at VR = 1 V, f = 1 MHz		C			1.5	"r	
at VR = 3 V, f = 1 MHz	BA782	Ctot	Ctot			1.25	pF
	BA783				1.2		
Series Inductance across Case		Ls		2.5		nΗ	