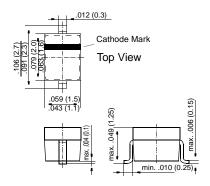
BA782S, **BA783S**

Bandswitching Diodes

SOD-323



Dimensions in inches and (millimeters)

FEATURES

- ♦ Silicon Epitaxial Planar Diode Switches
- **6**
- ◆ For electronic bandswitching in radio and TV tuners in the frequency range of 50 ... 1000 MHz.The dynamic forward 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-123 case with the type designations BA782 and BA783.

MECHANICAL DATA

Case: SOD-323 Plastic Package

Weight: approx. 0.004 g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

	Symbol	Value	Unit
Reverse Voltage	V _R	35	V
Forward Continuous Current at T _{amb} = 25 °C	I _F	100	mA
Junction Temperature	Tj	125	°C
Storage Temperature Range	T _S	-55 to +125	°C



BA782S, BA783S

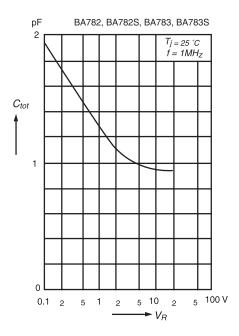
ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at I _F = 100 mA		V _F	-	-	1	V
Leakage Current at V _R = 20 V		I _R	-	-	50	nA
Dynamic Forward Resistance at $f = 50$ to 1000 MHz, $I_F = 3$ mA at $f = 50$ to 1000 MHz, $I_F = 10$ mA	BA782S BA783S BA782S BA783S	r _f r _f r _f r _f	- - - -	- - -	0.7 1.2 0.5 0.9	Ω Ω Ω
Capacitance at $V_R = 1$ V, $f = 1$ MHz at $V_R = 3$ V, $f = 1$ MHz	BA782S BA783S	C _{tot} C _{tot} C _{tot}	- - -	- - -	1.5 1.25 1.2	pF pF pF
Series Inductance across Case		L _S	_	2.5	_	nH

RATINGS AND CHARACTERISTIC CURVES BA782S, BA783S

Capacitance versus reverse voltage



Dynamic forward resistance versus forward voltage

