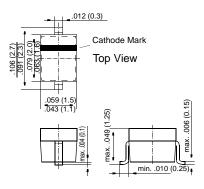
BA782S, BA783S

Bandswitching Diodes

<u>SOD-323</u>



Dimensions in inches and (millimeters)

FEATURES

• Silicon Epitaxial Planar Diode Switches



- 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	Тj	125	°C
Storage Temperature Range	Τ _S	-55 to +125	°C



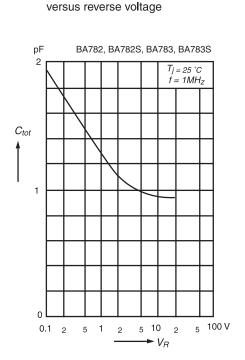
BA782S, BA783S

ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified

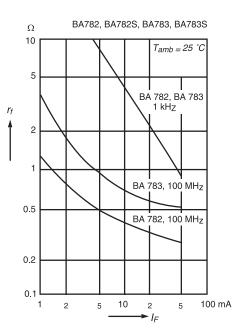
		Symbol	Min.	Тур.	Max.	Unit
Forward Voltage at $I_F = 100 \text{ mA}$		V _F	-	-	1	V
Leakage Current at V _R = 20 V		I _R	-	-	50	nA
Dynamic Forward Resistance at f = 50 to 1000 MHz, $I_F = 3 \text{ mA}$ at f = 50 to 1000 MHz, $I_F = 10 \text{ mA}$	BA782S BA783S BA782S BA783S	r _f r _f r _f r _f	- - - -		0.7 1.2 0.5 0.9	Ω 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

Dynamic forward resistance versus forward voltage





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