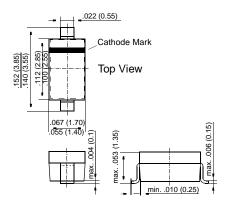
BA782, **BA783**

Bandswitching Diodes

SOD-123



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-323 case with the type designations BA782S and BA783S.

MECHANICAL DATA

Case: SOD-123 Plastic Case Weight: approx. 0.01 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



BA782, BA783

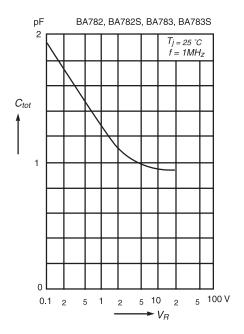
ELECTRICAL CHARACTERISTICS

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 BA78: at $f = 50$ to 1000 MHz, $I_F = 10$ mA BA78: BA78:	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 BA78:	-101	- - -	- - -	1.5 1.25 1.2	pF pF pF
Series Inductance across Case	L _S	_	2.5	_	nH

RATINGS AND CHARACTERISTIC CURVES BA782, BA783

Capacitance versus reverse voltage



Dynamic forward resistance versus forward voltage

