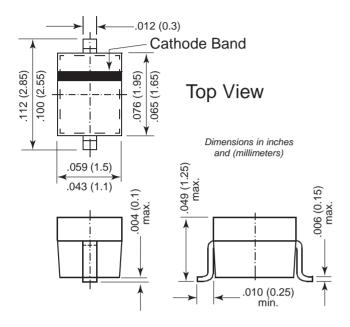


Vishay Semiconductors formerly General Semiconductor

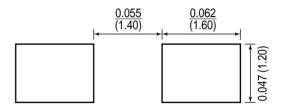


Bandswitching Diodes

SOD-323



Pad Layout SOD-323



Features

- Silicon Epitaxial Planar Diode Switches
- For electric 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 case Weight: approximately 0.004g Cathode Band Color: Blue Packaging Codes/Options:

D5/10K per 13" reel (8mm tape), 30K/box D6/3K per 7" reel (8mm tape), 30K/box

Maximum Ratings and Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

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

BA782S and BA783S

Vishay Semiconductors formerly General Semiconductor

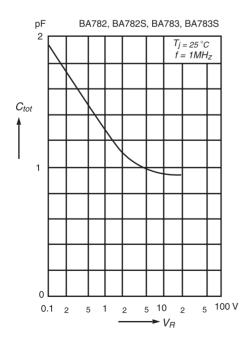


Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

Parameter		Symbol	Test Condition	Min	Тур	Max	Unit
Forward Voltage		VF	I _F = 100mA	_	_	1	V
Leakage Current		IR	VR = 20V	_	_	50	nA
Dynamic Forward Resistance BA783 BA783	BA782 BA783	rf	f = 501000MHz, I _F = 3mA	_		0.7 1.2	Ω
	BA782 BA783		f = 501000MHz, I _F = 10mA	_	_	0.5 0.9	
Capacitance	BA782 BA783	Ctot	VR = 1V, f = 1MHz VR = 3V, f = 1MHz	_ _ _	_ _ _	1.5 1.25 1.2	pF
Series Inductance across Case		Ls	_	_	2.5	_	nH

Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Capacitance versus reverse voltage



Dynamic forward resistance versus forward voltage

