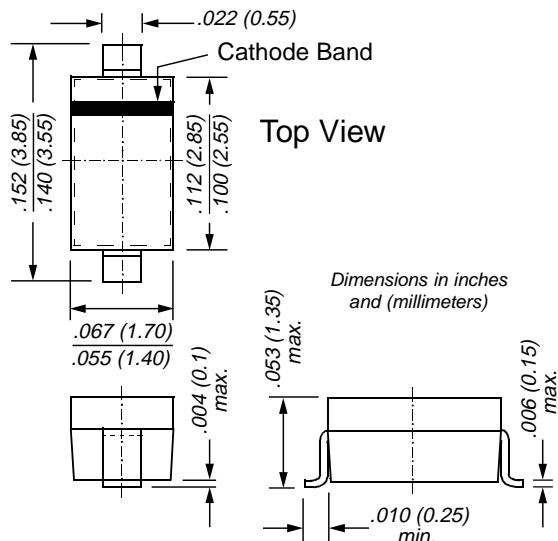
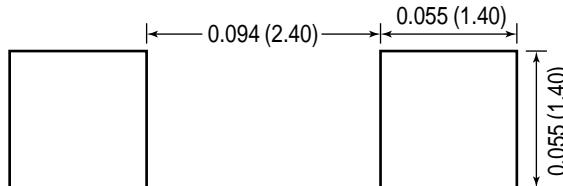




SOD-123



Pad Layout SOD-123



Mechanical Data

- Case:** SOD-123 plastic case
Weight: approximately 0.01 grams
Cathode Band Color: Blue
Packaging Codes/Options:
 D3/10K per 13" reel (8mm tape)
 D4/3K per 7" reel (8mm tape)

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-323 case with the type designations BA782S and BA783S.

Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

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

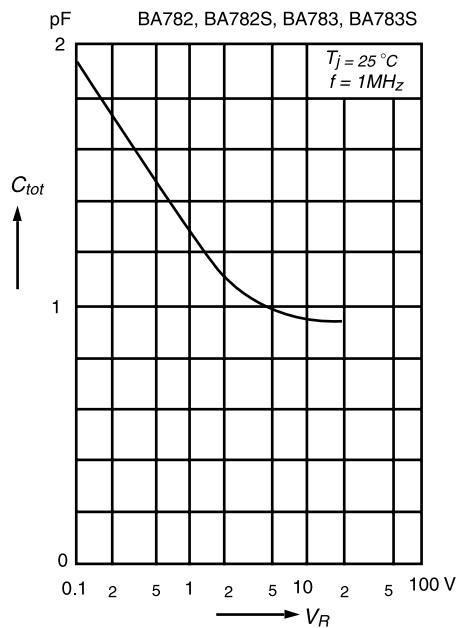
Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	$I_F = 100 \text{ mA}$	—	—	1	V
Leakage Current	I_R	$V_R = 20 \text{ V}$	—	—	50	nA
Dynamic Forward Resistance	r_f	$f = 50\text{...}1000 \text{ MHz}, I_F = 3 \text{ mA}$	—	—	0.7	Ω
		$f = 50\text{...}1000 \text{ MHz}, I_F = 10 \text{ mA}$	—	—	1.2	
		$V_R = 1 \text{ V}, f = 1 \text{ MHz}$	—	—	0.5	
		$V_R = 3 \text{ V}, f = 1 \text{ MHz}$	—	—	0.9	
Capacitance	C_{tot}		—	—	1.5	pF
Series Inductance across Case	L_s	—	—	2.5	—	

Ratings and Characteristic Curves

Capacitance
versus reverse voltage



Dynamic forward resistance
versus forward voltage

