

### Surface Mount Band Switching Diode

**(Pb)** Lead(Pb)-Free

#### Features:

- \* Low Diode Capacitance : 1.2pF(Max.)
- \* Low Diode Forward Resistance : 0.9Ω(Max.)
- \* Low Reverse Current :  $I_R = 10\text{nA}$ (Max.)
- \* Small outline Surface mount SOD-323 Package

#### Applications:

- \* Low Loss Band Switching in VHF television Tuners.

**Band Switching Diode**  
**100m AMPERES**  
**35 VOLTS**



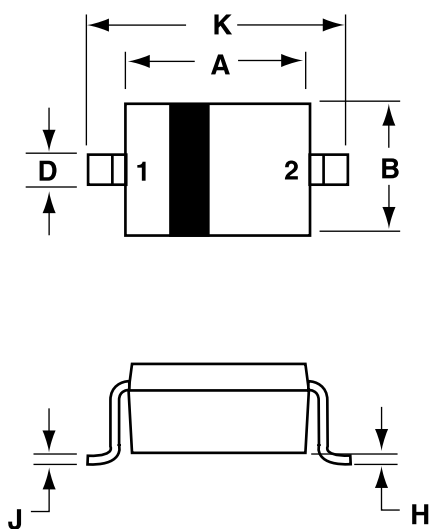
**SOD-323**

#### Mechanical Data:

- \* Terminals : Solderable Per MIL-STD-202 Method 208
- \* Polarity : See Equivalent Circuit Diagram.
- \* Weight : 0.004 grams(approx)

### SOD-323 Outline Dimensions

Unit:mm



Dim	MILLMETERS	
	Min	Max
A	1.60	1.80
B	1.15	1.35
C	0.80	1.00
D	0.25	0.40
E	0.15REF	
H	0.00	0.10
J	0.089	0.177
K	2.30	2.70

**PIN 1.CATHODE**  
**2.ANODE**

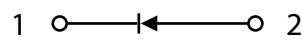
## MAXIMUM RATING (T<sub>A</sub>=25°C)

Characteristics	Symbol	Value	Unit
Continuous Reverse Voltage	V <sub>R</sub>	35	V
DC Forward Current	I <sub>F</sub>	100	mA
Junction Temperature	T <sub>j</sub>	125	°C
Storage Temperature	T <sub>stg</sub>	-55 to +125	°C

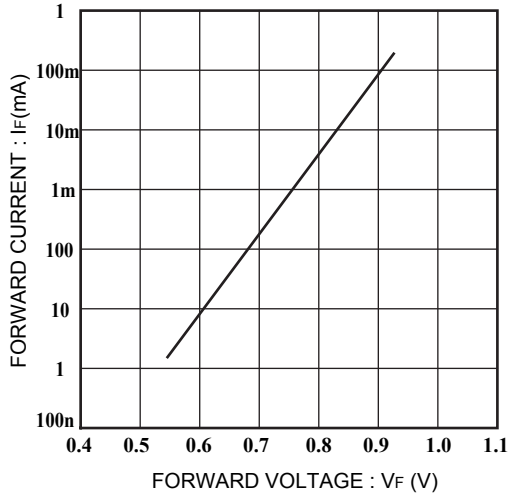
## ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

Characteristics	Symbol	Min	Typ	Max	Unit
Maximum Instantaneous Forward Voltage I <sub>F</sub> =10mA	V <sub>F</sub>	-	-	1.0	V
Maximum Instantaneous Reverse Current V <sub>R</sub> =25V	I <sub>R</sub>	-	-	10	nA
Capacitance Between terminals V <sub>R</sub> =6V, f=1MHz	C <sub>T</sub>	-	-	1.2	pF
Forward Operating Resistance I <sub>F</sub> =2.0mA, f=100MHz	R <sub>f</sub>	-	-	0.9	Ω

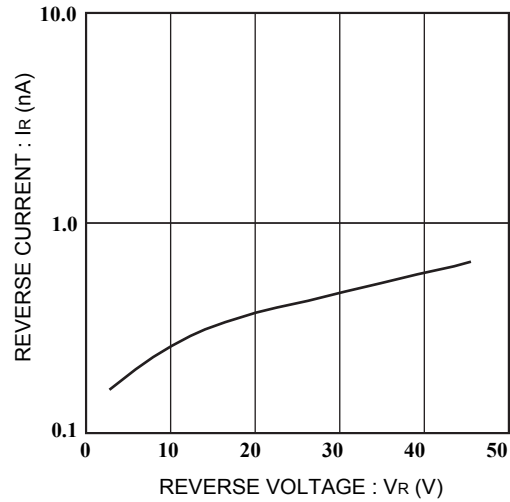
## Device Marking & Equivalent Circuit diagram

Item	Marking	Equivalent Circuit diagram
1SS356	B	

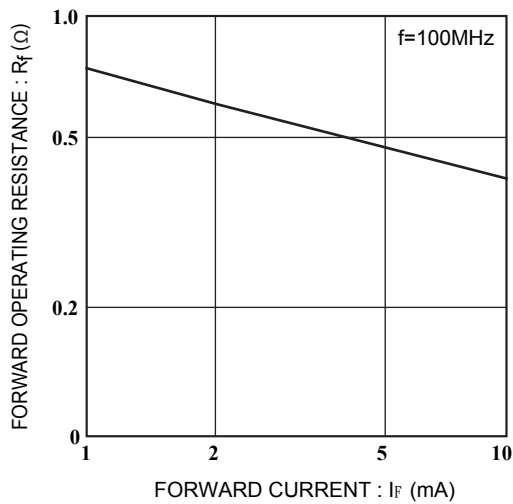
## Electrical Characteristic Curves ( $T_A=25^\circ\text{C}$ Unless Specified Otherwise)



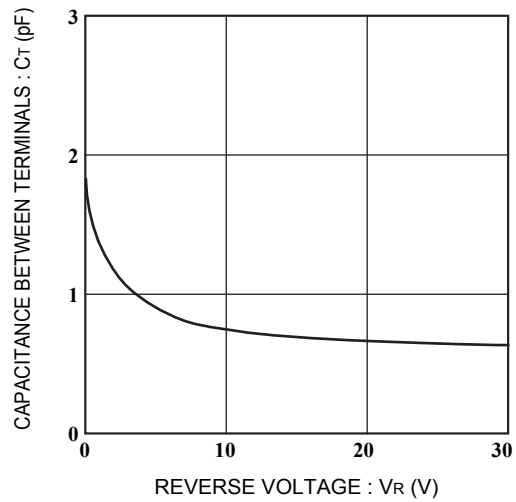
**Fig. 1 Forward characteristics**



**Fig. 2 Reverse characteristics**



**Fig. 4 Forward operating resistance characteristics**



**Fig. 3 Capacitance between terminals characteristics**