WEITRON

1SS357

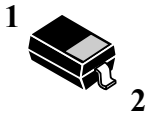
Surface Mount Schottky Barrier Diode

Lead(Pb)-Free

SCHOTTKY BARRIER
100m AMPERES
40 VOLTS

Features:

* Low Forward Voltage : VF = 0.28(Typ.) @ IF = 1mA
* Low Reverse Current : IR = 5μA(Max.)
* Small outline Surface mount SOD-323 Package



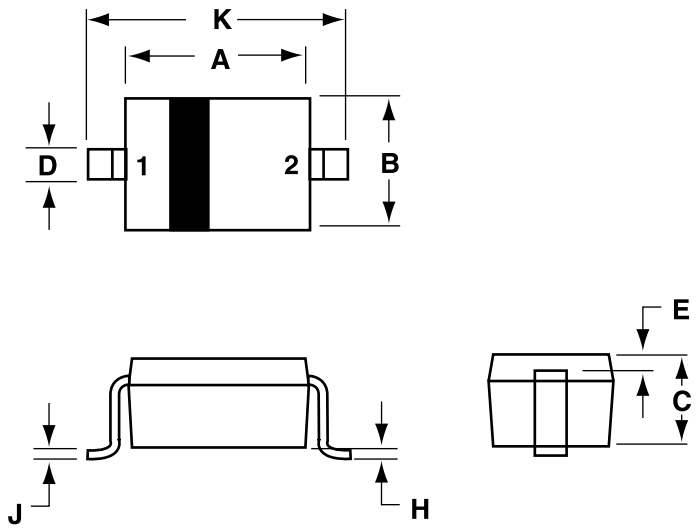
SOD-323

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	0.377
K	2.30	2.70

PIN 1.CATHODE
2.ANODE

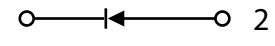
MAXIMUM RATING (T_A=25˚C)

Characteristics	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	45	V
Continuous Reverse Voltage	V_R	40	V
Average Rectified Forward Current	I_O	100	mA
Peak Forward Surge Current	I_{FSM}	1.0	A
Junction Temperature	T_j	125	℃
Storage Temperature	T_{stg}	-55 to+125	℃

ELECTRICAL CHARACTERISTICS (T_A=25˚C)

Characteristics	Symbol	Min	Typ	Max	Unit
Maximum Instantneous Forward Voltage I_F=1mA I_F=10mA I_F=100mA	V_F		 0.28 0.36	 0.6	V
Maximum Instantneous Reverse Current V_R=40V	I_R			5	μA
Capacitance Between terminals V_R=0V, f=1MHz	C_T			25	pF

Device Marking & Equivalent Circuit diagram

Item	Marking	Equivalent Circuit diagram
1SS357	S31	

Electrical Characteristic Curves (T_A=25˚C Unless Specified Otherwise)

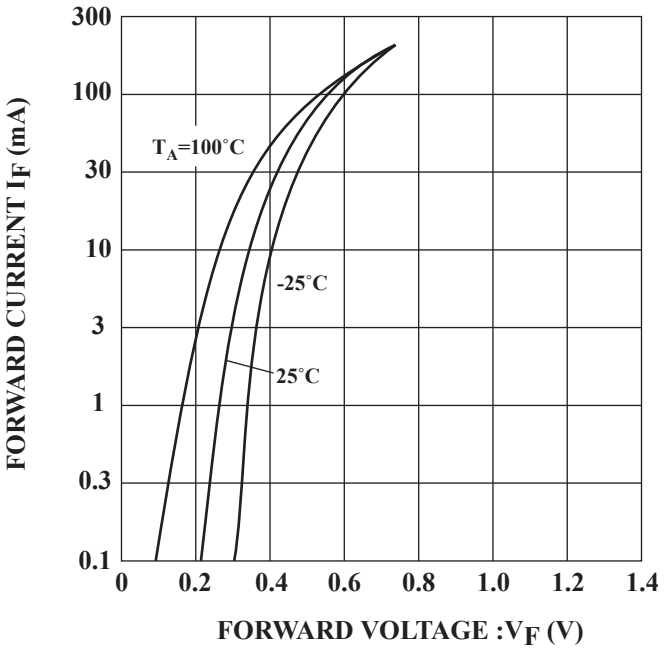


Fig.1 Forward Characteristics

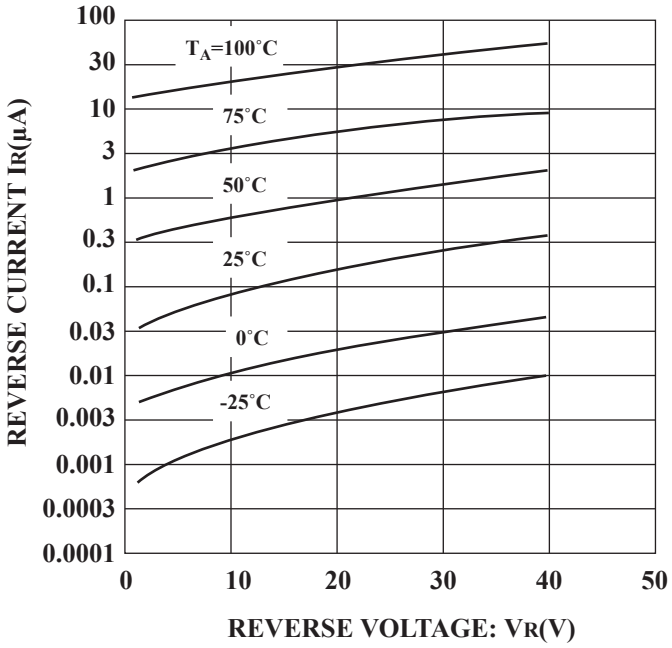


FIG.2 Reverse Characteristics

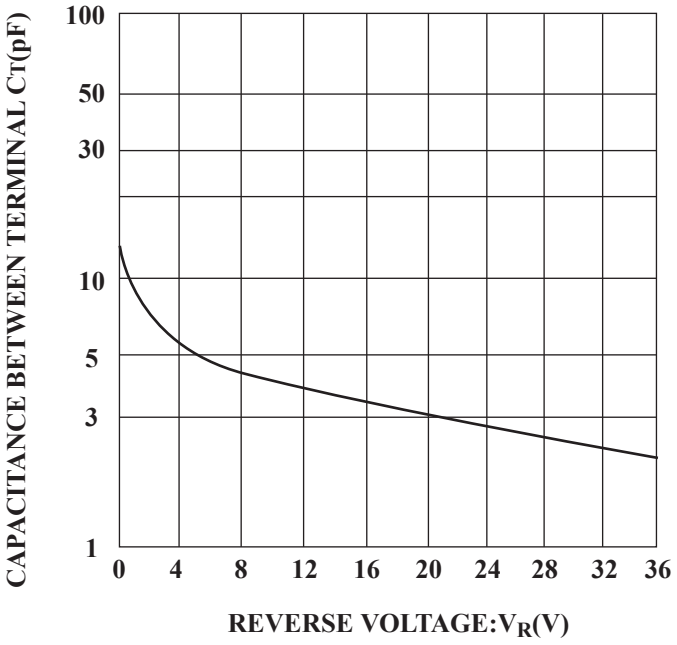


FIG.3 Capacitance Between Terminal Chacteristics