

Surface Mount Schottky Barrier Diode

 Lead(Pb)-Free

Features:

- * Low Forward Voltage : $V_F = 0.28(\text{Typ.}) @ I_F = 1\text{mA}$
- * Low Reverse Current : $I_R = 5\mu\text{A}(\text{Max.})$
- * Small outline Surface mount SOD-323 Package

Mechanical Data:

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

SCHOTTKY BARRIER

100m AMPERES

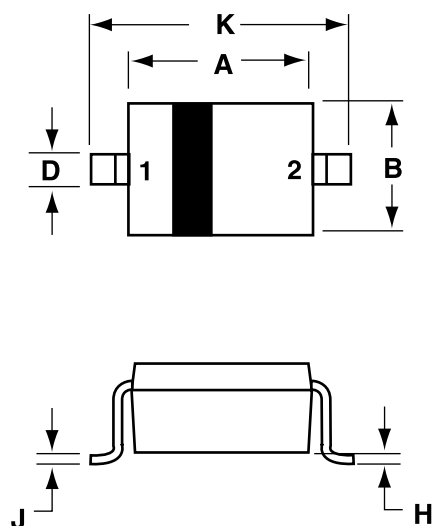
40 VOLTS



SOD-323

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

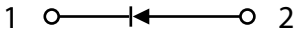
MAXIMUM RATING ($T_A=25^{\circ}\text{C}$)

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	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +125	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

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

Device Marking & Equivalent Circuit diagram

Item	Marking	Equivalent Circuit diagram
1SS357	S31	

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

