

### Surface Mount Schottky Barrier Diode

 Lead(Pb)-Free

#### Features:

\*Extremely Low  $V_F$ .

\*Very Small Conduction Losses.

\*Schottky Barrier Diodes Encapsulated in SOD-323 Package.

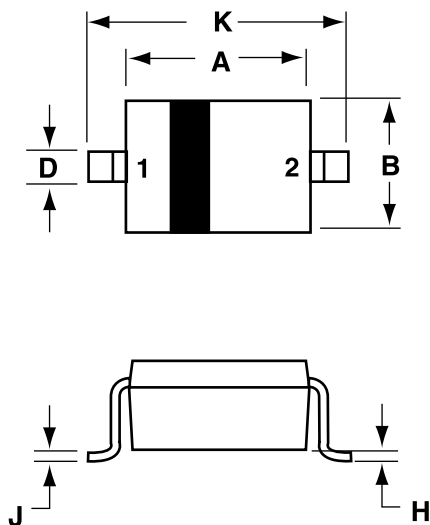
**SCHOTTKY BARRIER  
RECTIFIERS  
100m AMPERES  
40 VOLTS**



**SOD-323**

### SOD-323 Outline Demensions

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	0.15 REF	
H	0.00	0.10
J	0.089	0.377
K	2.30	2.70

PIN 1.CATHODE  
2.ANODE

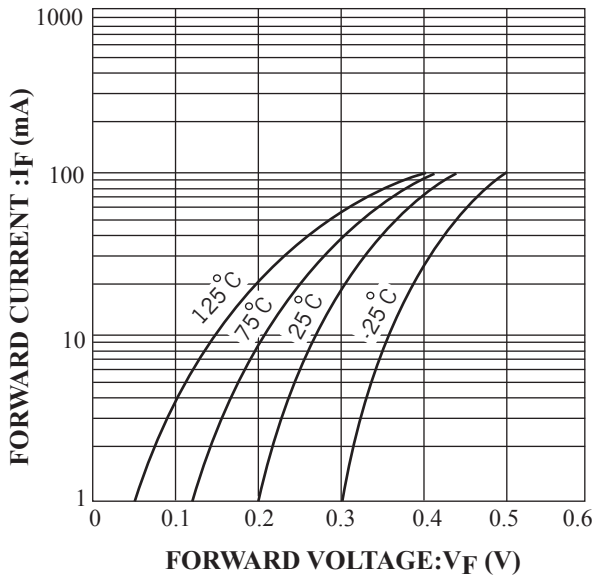
**MAXIMUM RATING**

Characteristics	Symbol	WSD 501H	Unit
Breakdown Voltage	$V_B$	45	Volts
Continuous Reverse Voltage	$V_R$	40	Volts
Average Rectified Forward Current	$I_O$	100	mAmps
Peak Forward Surge Current (8.3ms <sup>1/2</sup> Sine Wave)	$I_{FSM}$	1.0	Amps
Storage Temperature	$T_{stg}$	-40 to +125	°C

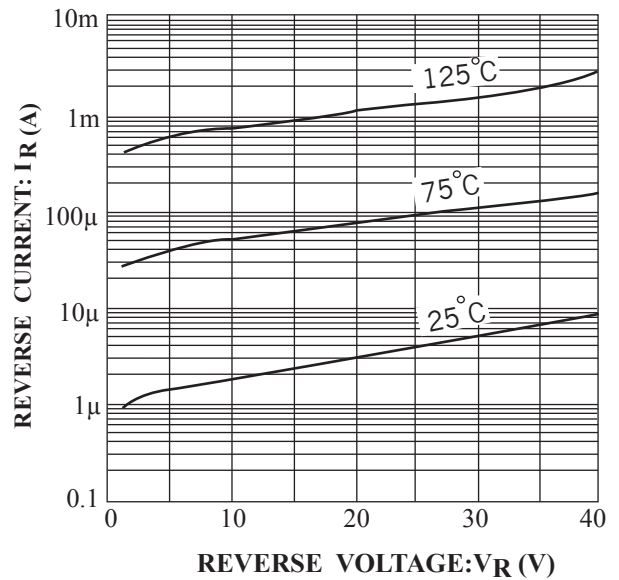
**ELECTRICAL CHARACTERISTICS (Ta=25 °C)**

Characteristics	Symbol	WSD 501H	Unit
Device Marking		JV	
Maximum Instantaneous Forward Voltage $I_F=100mA$	$V_F$	0.55	Volts
Maximum Instantaneous Reverse Current ( $V_R=10V$ )	$I_R$	30	μAmps
Typical Junction Capacitance ( $V_R=10V, f=1MHz$ )	$C_J$	20	Pf

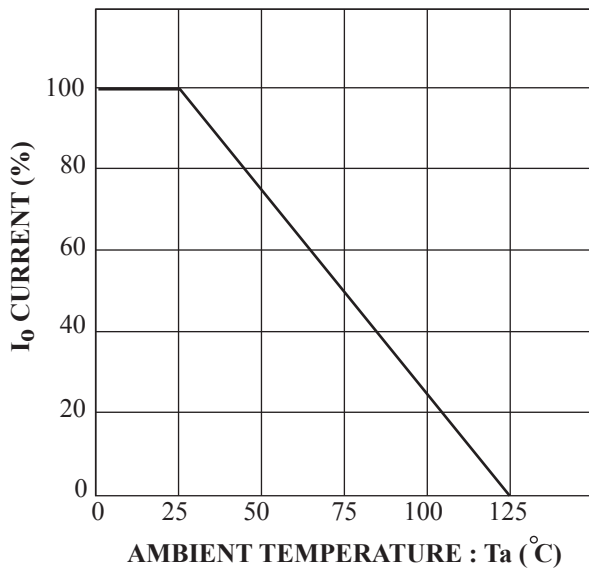
## Electrical characteristics curves (Ta=25°C unless specified otherwise)



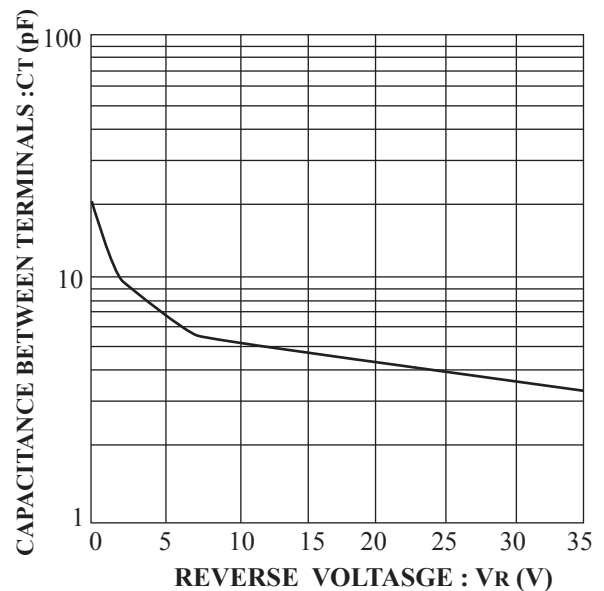
**FIG: 1 Forward characteristics**



**Fig.2 Reverse characteristics**



**Fig. 4 Derating curve  
(mounting on glass epoxy PCBs)**



**Fig.3 Capacitance between  
terminals characteristics**