

### Surface Mount Schottky Barrier Diode

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

#### Features:

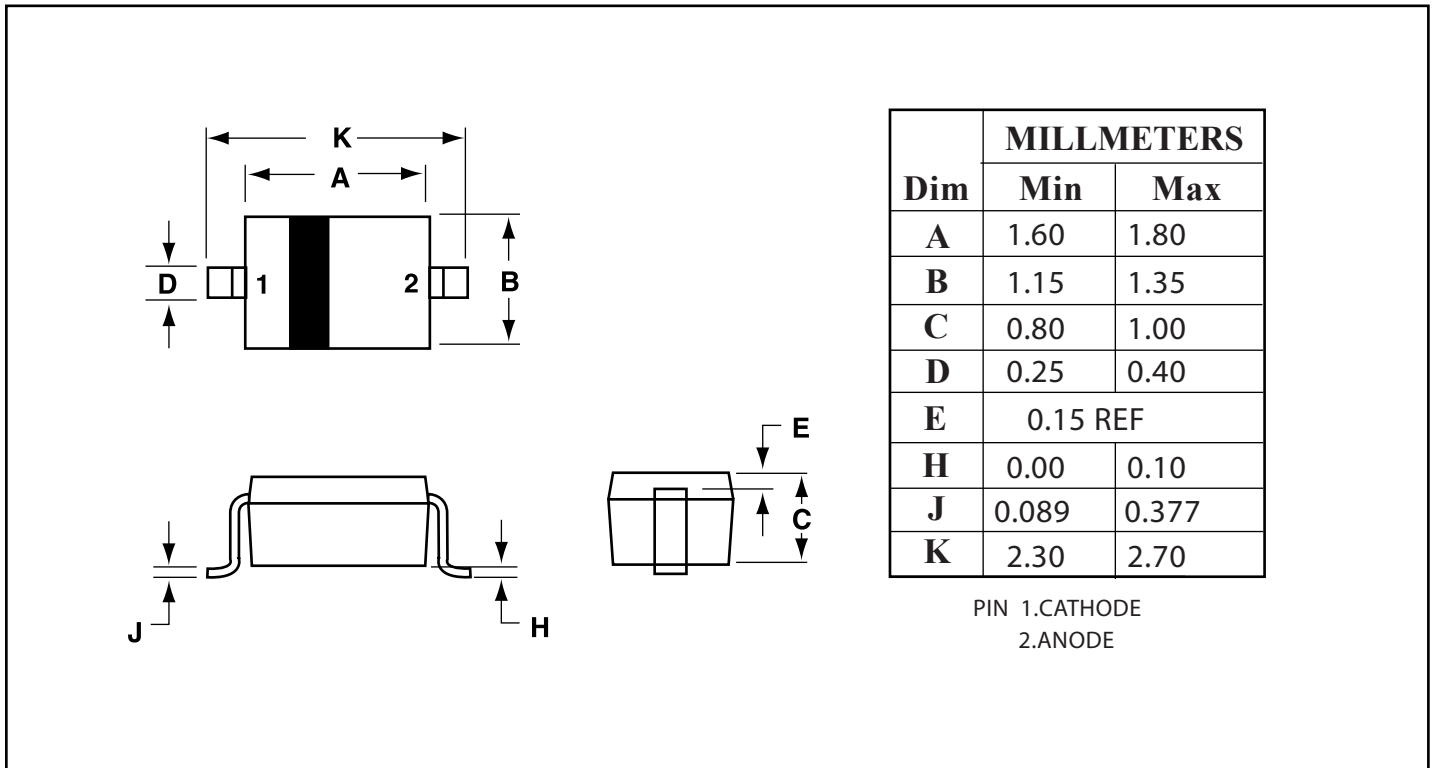
- \*Extremely Low  $V_F$
- \*Very Small Conduction Losses.
- \*Schottky Barrier Diodes Encapsulated in SOD-323 Package.

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



### SOD-323 Outline Dimensions

Unit:mm



**MAXIMUM RATING**

Characteristics	Symbol	WSD 500H	Unit
Reverse Breakdown Voltage	$V_R$	40	Volts
Average Rectified Forward Current	$I_O$	100	mAmps
Peak Forward Surge Current (8.3ms 1/2 Sine Wave)	$I_{FSM}$	1.0	Amps
Storage Temperature	$T_{stg}$	-40 to+125	°C

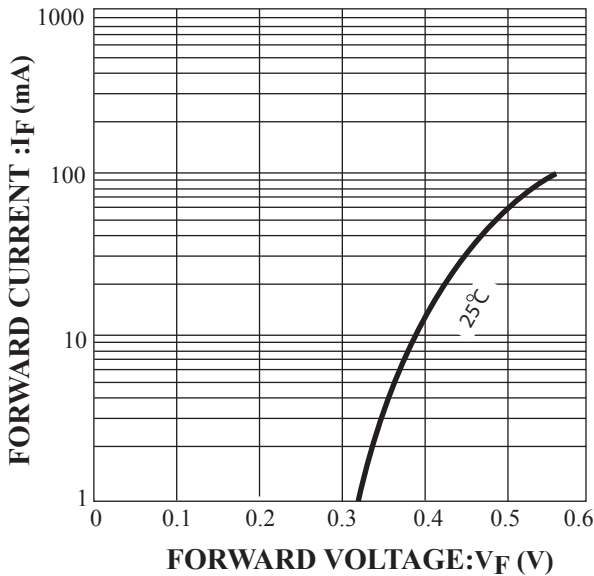
**ELECTRICAL CHARACTERISTICS (Ta=25°C)**

Characteristics	Symbol	MIN	MAX	Unit
Reverse Breakdown Voltage $I_R=100\mu A$	$V_{(BR)R}$	40		Volts
Maximum Instantaneous Forward Voltage $I_F=10mA$	$V_F$		0.45	Volts
Maximum Instantaneous Reverse Current ( $V_R=10V$ )	$I_R$		1.0	$\mu$ Amps
Typical Junction Capacitance ( $V_R=10V, f=1MHz$ )	$C_J$		20	pF

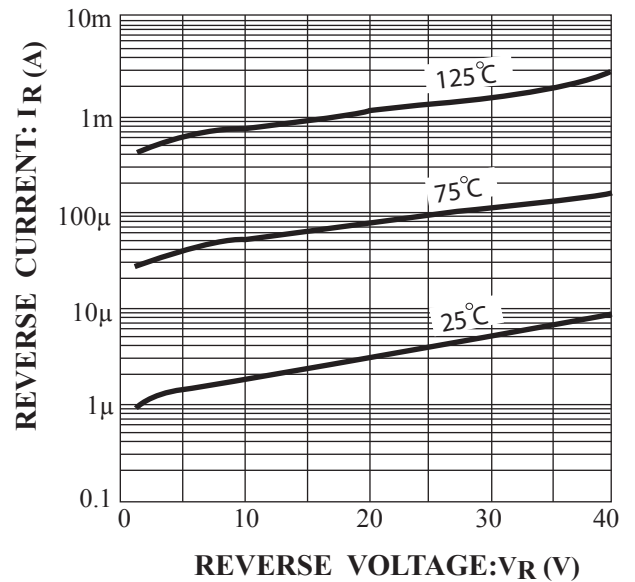
**Device Marking**

Item	Marking
WSD500H	JV

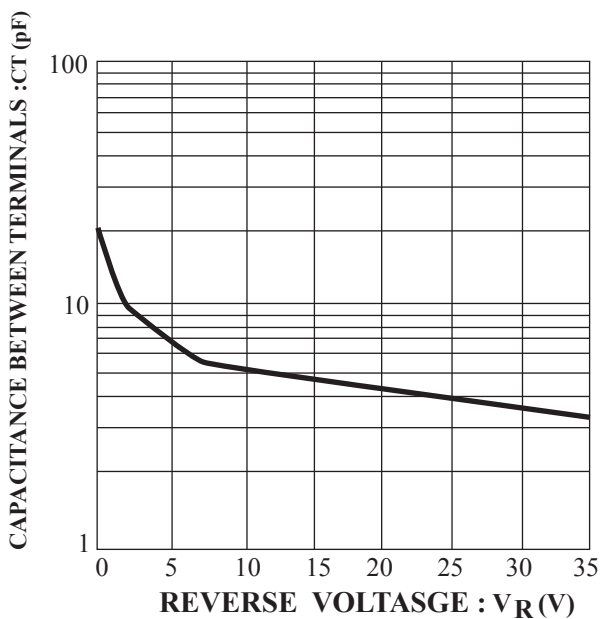
## Electrical Characteristics Curves (Ta=25°C unless specified otherwise)



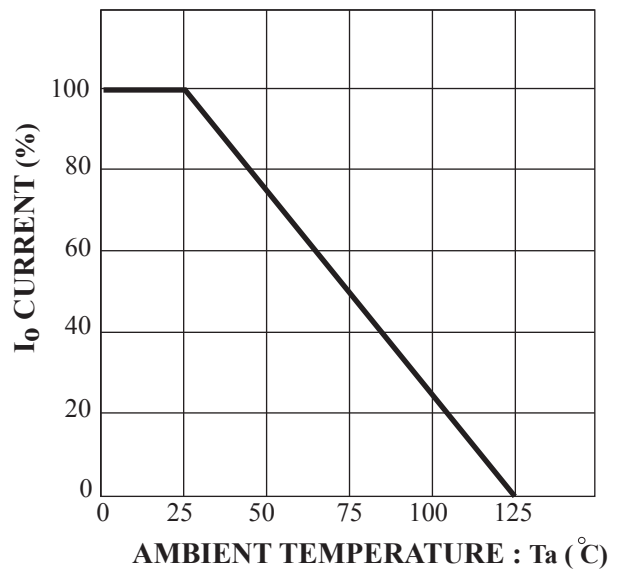
**FIG: 1 Forward Characteristics**



**FIG.2 Reverse Characteristics**



**FIG.3 Capacitance Between Terminals Characteristics**



**FIG.4 Derating Curve (mounting on glass epoxy PCBs)**