

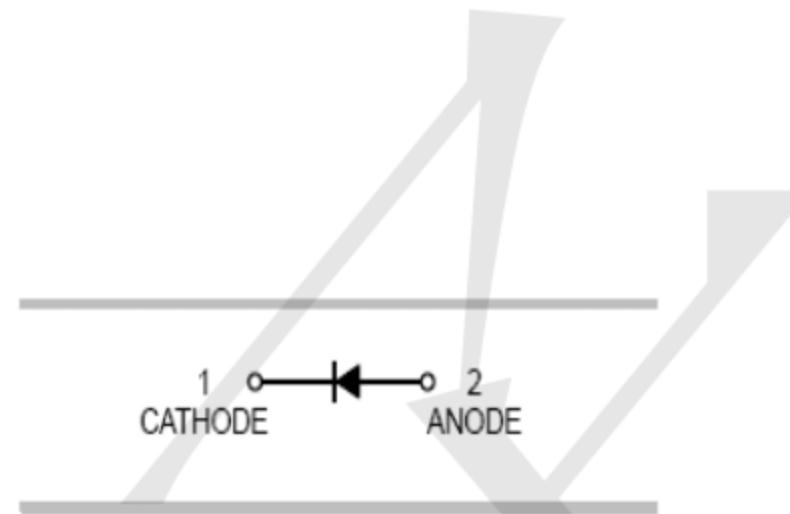
## Features

- General rectification
- Low  $V_F$ ; Low  $I_R$
- High reliability

## Applications

- surface mount schottky barrier rectifier
- Ordering Information**
- Shipping Qty:3000/7inch Tape& Reel

SOD323



## Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	B5817WS	B5819WS	Units
Peak Repetitive Reverse Voltage	$V_{RRM}$	30	40	V
RMS Reverse Voltage	$V_{RMS}$	21	28	V
Maximum Average Forward Output Current	$I_{F(AV)}$		1	A
Peak Forward Surge Current,8.3ms Single Half-sine-wave	$I_{FSM}$		10	A

## Thermal Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	B5817WS	B5819WS	Units
Power Dissipation	$P_D$		250	mW
Typical Thermal Resistance per leg	$R_{\Theta JA}^*$		400	°C /W
Operating Junction Temperature Range	$T_J$		125	°C
Storage Temperature Range	$T_{STG}$		-55 to +150	°C

\* Part mounted on FR-4 board with recommended pad layout

## Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Forward Voltage	$V_F^*$	$I_F=1\text{A}$ <b>B5817WS</b>	-	-	0.55	V
		$I_F=1\text{A}$ <b>B5819WS</b>			0.60	
		$I_F=3\text{A}$ <b>B5817WS</b>			0.875	
		$I_F=3\text{A}$ <b>B5819WS</b>	-	-	0.90	
Maximum Peak Reverse Current	$I_R^{**}$	$V_R= 30\text{V}$ <b>B5817WS</b>	-	-	1	mA
		$V_R= 40\text{V}$ <b>B5819WS</b>				
Capacitance Between Terminals	$C_T$	$V_R=4\text{V},f=1\text{MHz}$	-	39	120	pF

## Typical Electrical Characteristic Curves

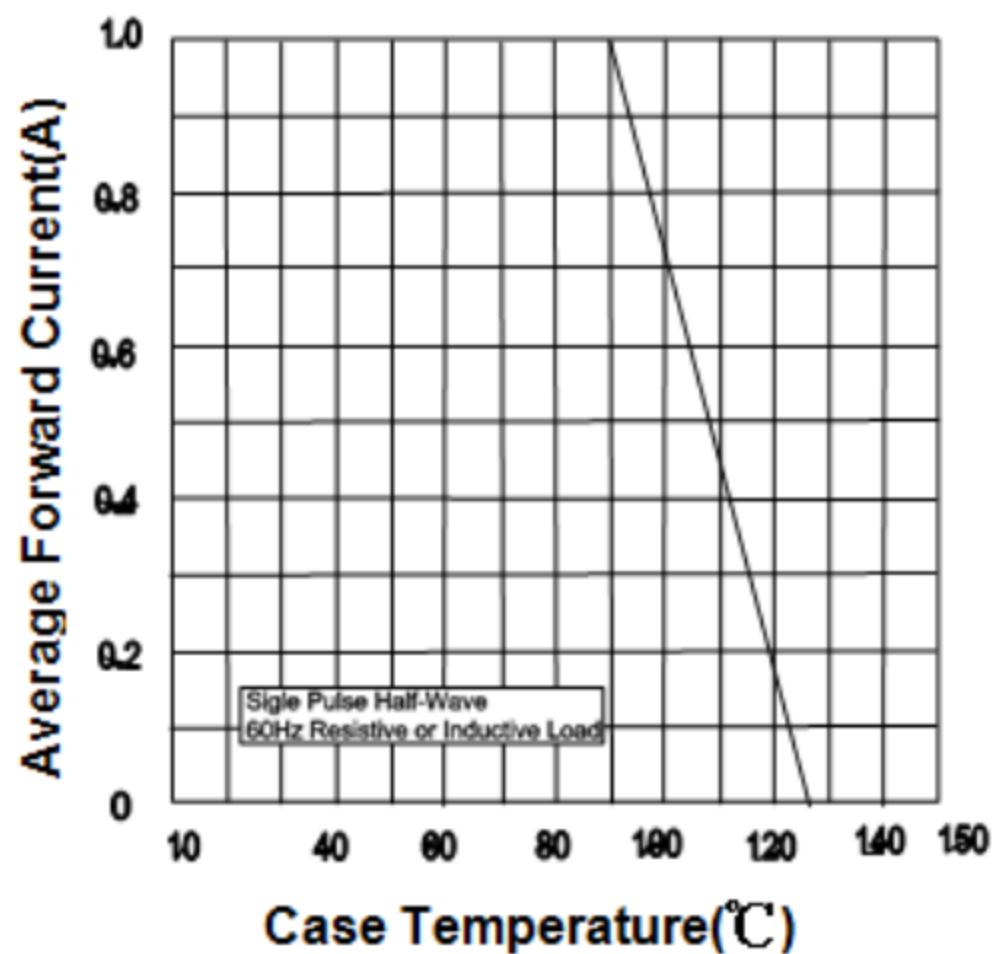


Fig.1 Forward Current Derating Curve

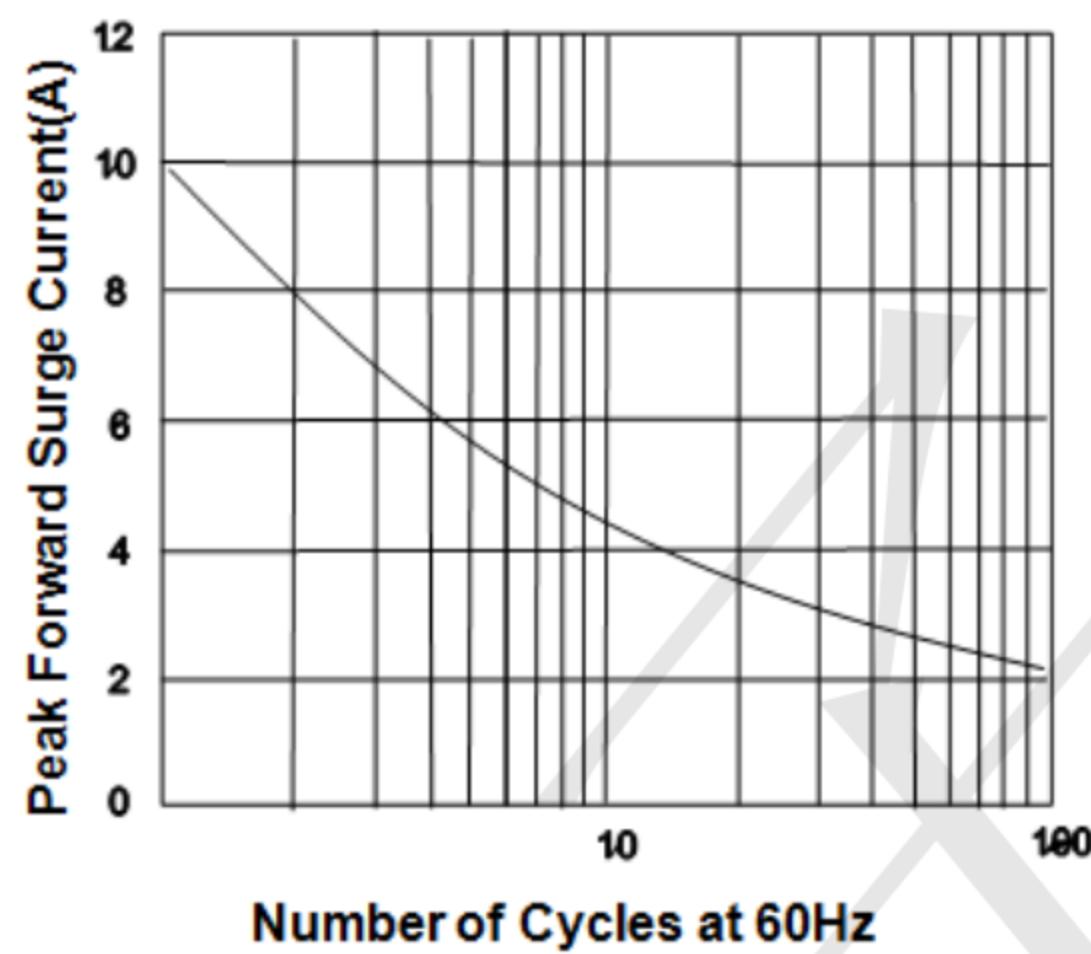


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

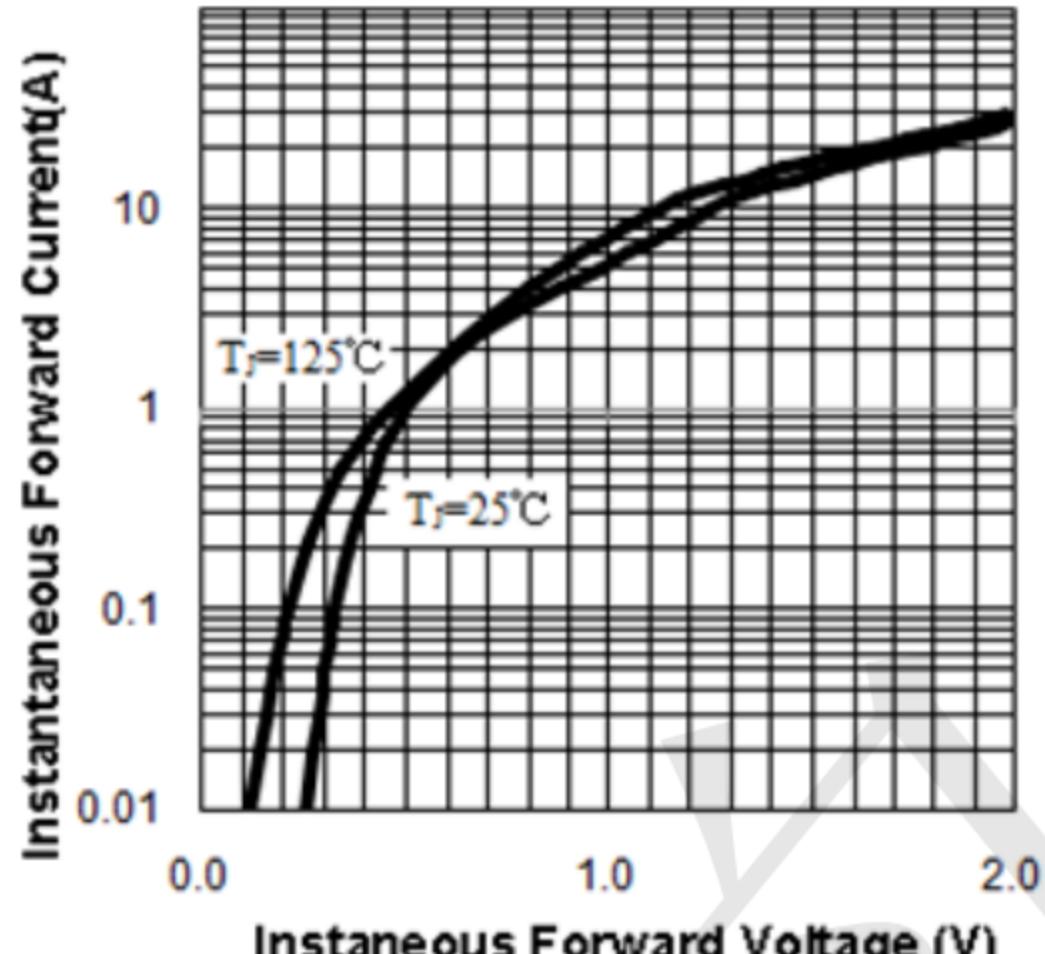


Fig.3 Typical Instantaneous Forward Characteristics

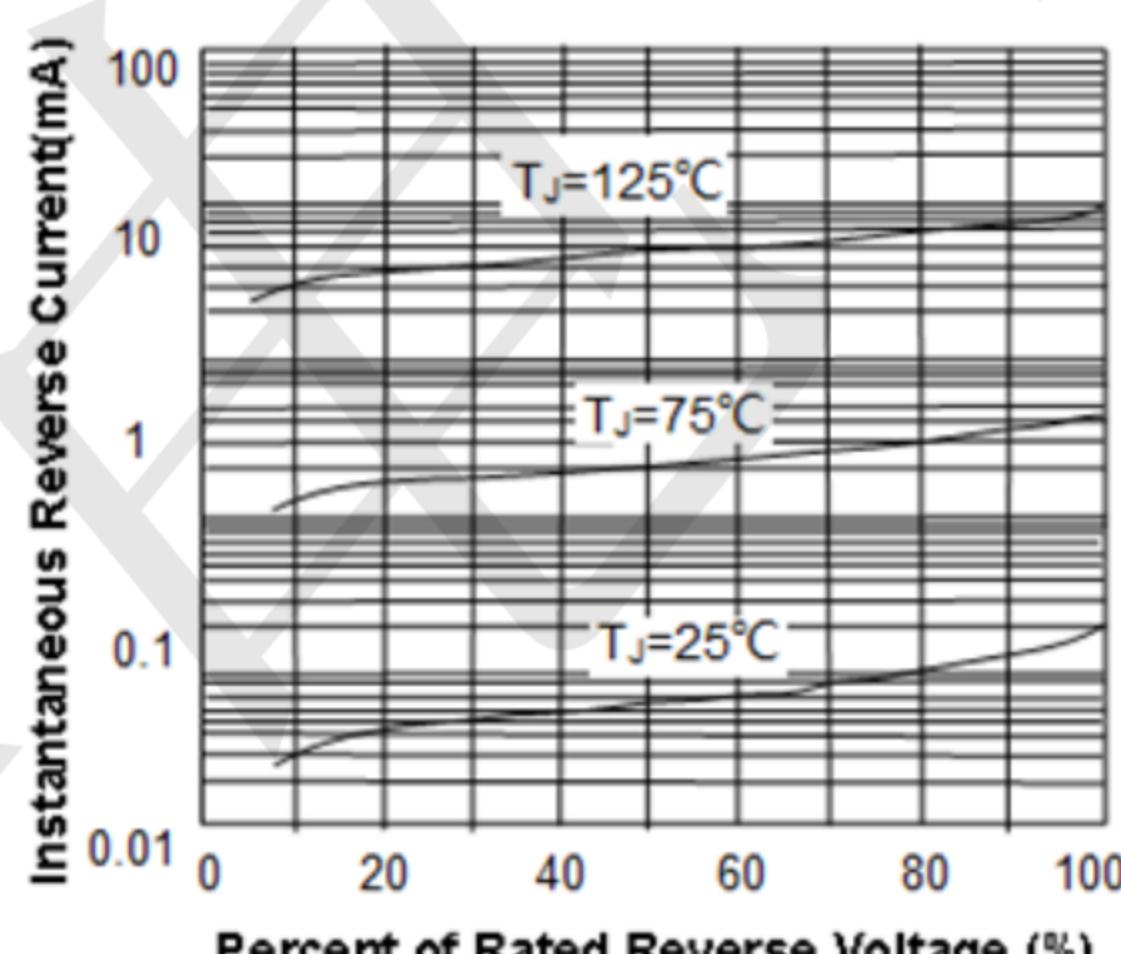
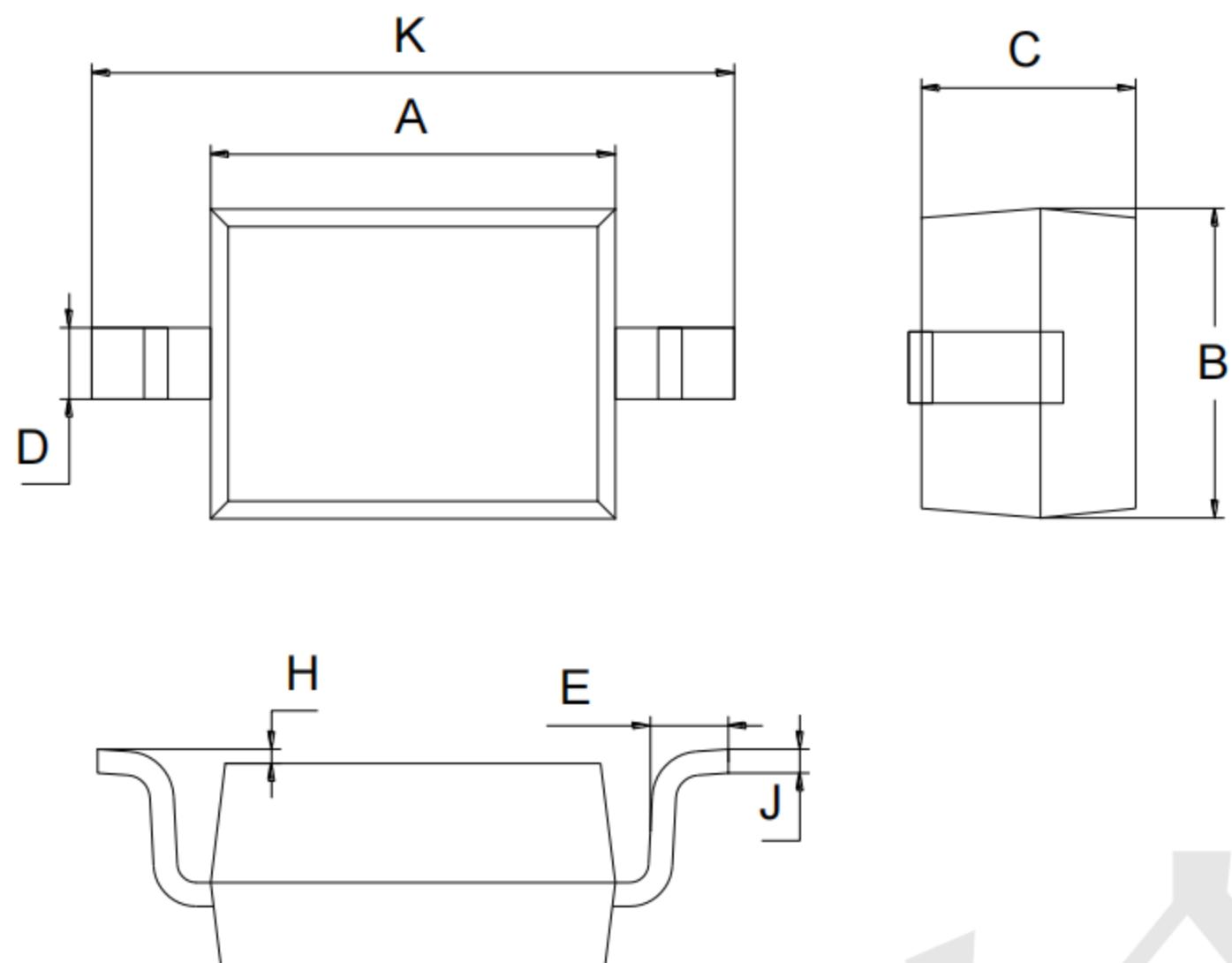


Fig.4 Typical Reverse Characteristics

## Outline Drawing - SOD323



SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.10
J	0.05	0.15
K	2.55	2.75

## Mounting Pad Layout-SOD323 (unit: mm)

