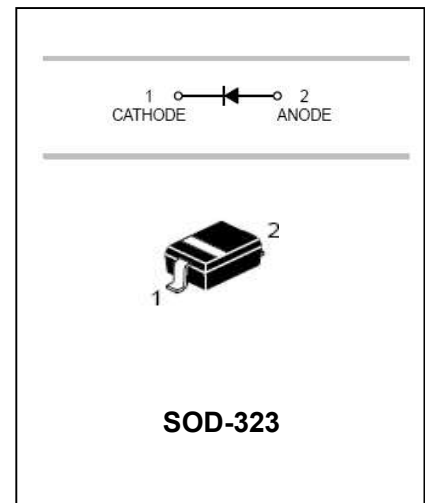


Schottky Barrier Diode

B5817WS

FEATURES

- Extremely low V_F .
- Low stored charge, majority carrier conduction.
- Low power loss/high efficient.
- MSL 1.



APPLICATIONS

- For Use In Low Voltage, High Frequency Inverters
- Free Wheeling, And Polarity Protection Applications

ORDERING INFORMATION

Type No.	Marking	Package Code
B5817WS	SJ	SOD-323

MAXIMUM RATING @ $T_a=25^\circ\text{C}$ unless otherwise specified

Parameter	symbol	Value	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	24	V
Peak repetitive Peak reverse voltage Working Peak Reverse voltage DC Reverse Voltage	V_{RRM} V_{RWM} V_R	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	V
Average Rectified output Current	I_o	1	A
Peak forward surge current@=8.3ms	I_{FSM}	10	A
Power Dissipation	P_d	235	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	80	$^\circ\text{C/W}$
Junction and Storage Temperature Range	T_J, T_{STG}	-65 to +150	$^\circ\text{C}$

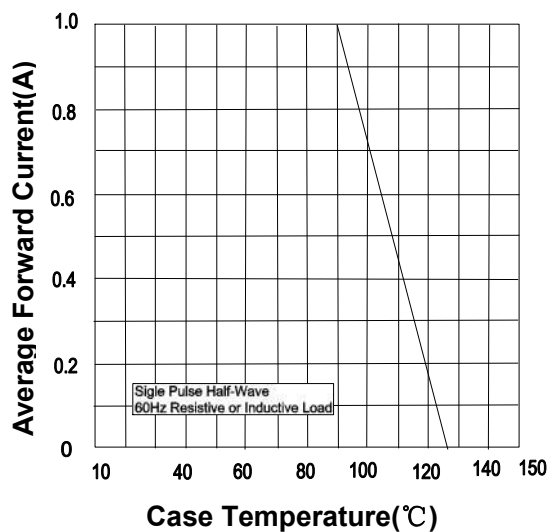
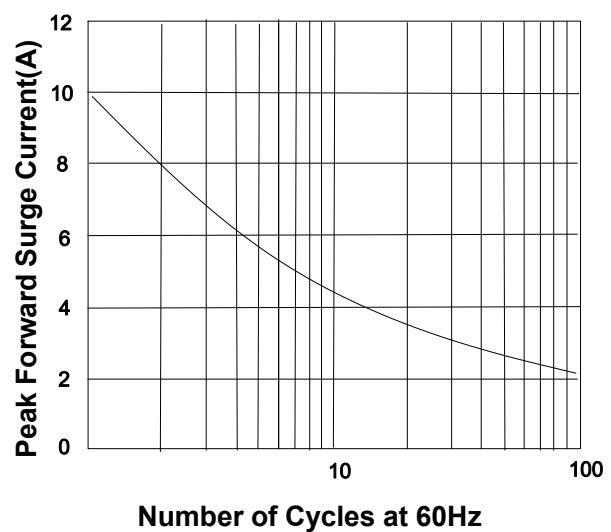
Schottky Barrier Diode

B5817WS

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

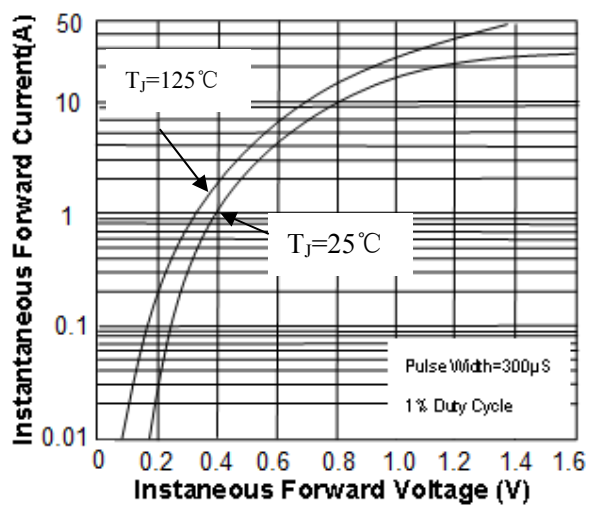
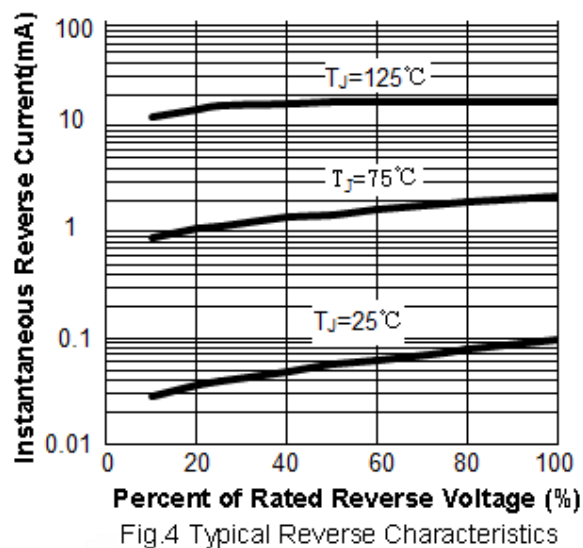
Parameter	Symbol	Test Condition	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)}$	$I_R=1mA$	20		V
Reverse voltage leakage current	I_R	$V_R=20V$		1	mA
Forward voltage	V_F	$I_F=1A$ $I_F=3A$		0.45 0.75	V
Diode capacitance	C_D	$V_R=4V, f=1MHz$		120	pF

TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



Schottky Barrier Diode

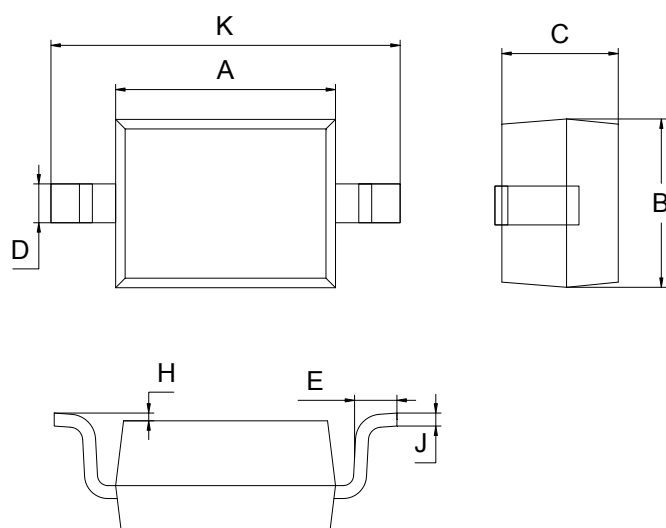
B5817WS



PACKAGE OUTLINE

Plastic surface mounted package

SOD-323

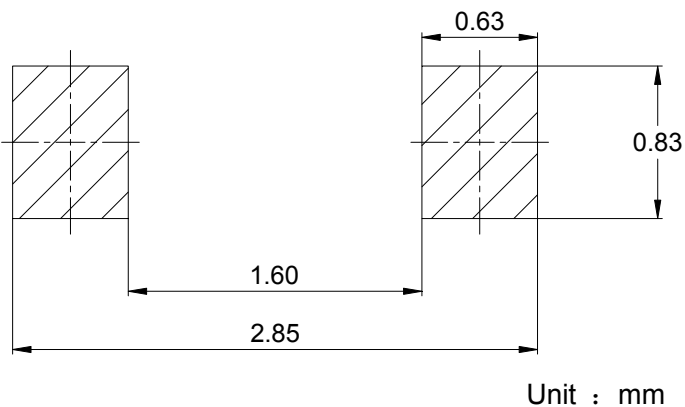


SOD-323		
Dim	Min	Max
A	1.60	1.80
B	1.20	1.40
C	0.80	0.90
D	0.25	0.35
E	0.22	0.42
H	0.02	0.1
J	0.05	0.15
K	2.55	2.75
All Dimensions in mm		

Schottky Barrier Diode

B5817WS

SOLDERING FOOTPRINT



PACKAGE INFORMATION

Device	Package	Shipping
B5817WS	SOD-323	3000/Tape&Reel