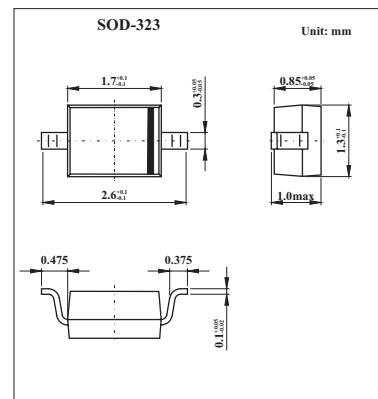


Schottky Barrier Diodes**1N5817WS-1N5819WS****■ Features**

- For use in low voltage, high frequency inverters
- Free wheeling, and polarity protection applications.

**■ Absolute Maximum Ratings Ta = 25°C**

Parameter	Symbol	1N5817WS	1N5818WS	1N5819WS	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	20	30	40	V
Peak repetitive Peak reverse voltage	V _{R_{RRM}}				
Working Peak Reverse Voltage	V _{R_WM}	20	30	40	V
DC Blocking Voltage	V _R				
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Rectified Output Current	I _O		1		A
Peak forward surge current @=8.3ms	I _{F_{FSM}}		25		A
Repetitive Peak Forward Current	I _{F_{RRM}}		625		mA
Power Dissipation	P _d		250		mW
Thermal Resistance Junction to Ambient	R _{J-A}		500		K/W
Storage temperature	T _{TSG}		-65 to 150		°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons		Min	Typ	Max	Unit
Reverse breakdown voltage 1N5817WS 1N5818WS 1N5819WS	V _(BR)	I _R = 1mA		20			V
				30			
				40			
Reverse voltage leakage current 1N5817WS 1N5818WS 1N5819WS	I _R	VR=20V VR=30V VR=40V				1	mA
Forward voltage 1N5817WS 1N5818WS 1N5819WS	V _F	I _F =1A I _F =3A I _F =1A I _F =3A I _F =1A I _F =3A				0.45	V
						0.75	
						0.55	
						0.875	V
						0.6	
						0.9	V
Diode capacitance	C _D	VR=4V, f=1MHz				120	pF

■ Marking

NO.	1N5817WS	1N5818WS	1N5819WS
Marking	SJ	SK	SL

1N5817WS-1N5819WS

■ Typical Characteristics

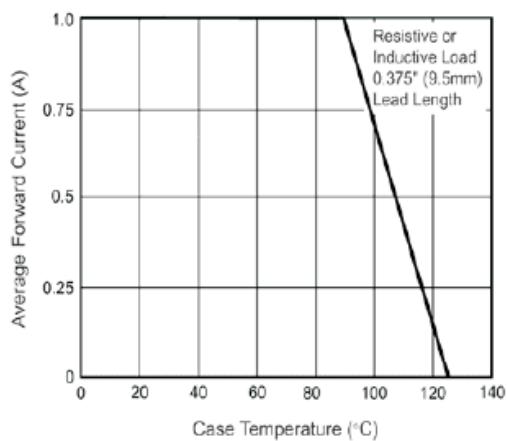


Fig.1 Forward Current Derating Curve

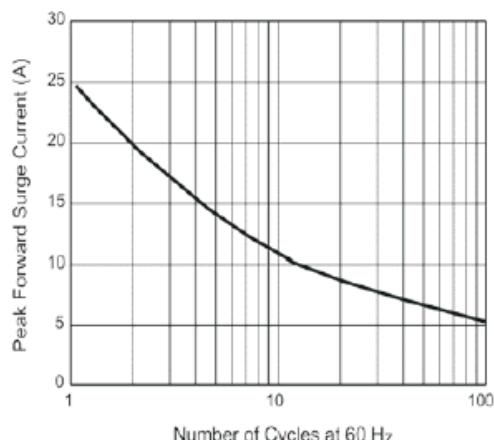


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

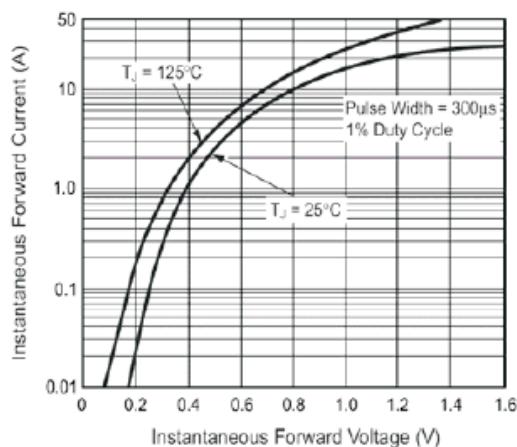


Fig.3 Typical Instantaneous Forward Characteristics

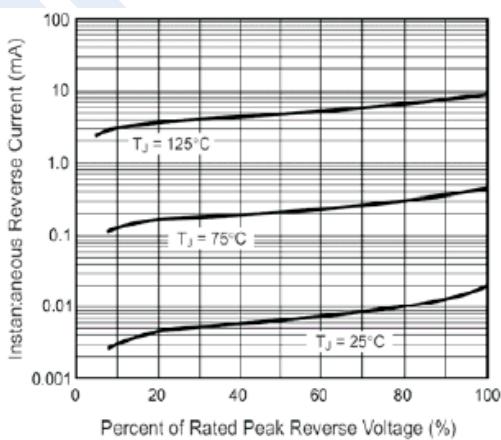


Fig.4 Typical Reverse Characteristics

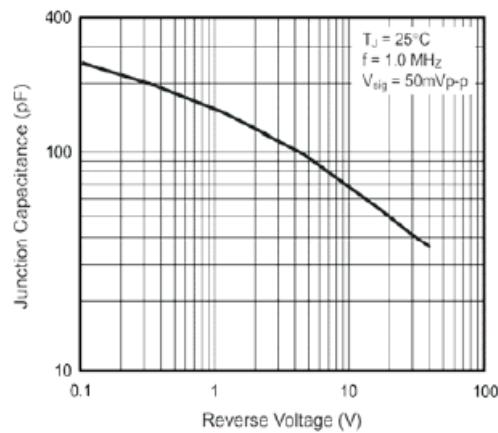


Fig.5 Typical Junction Capacitance

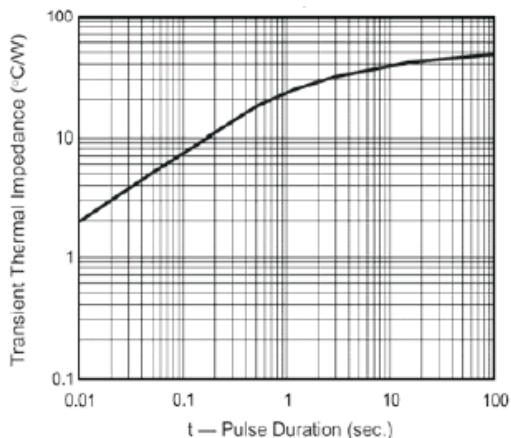


Fig.6 Typical Transient Thermal Impedance