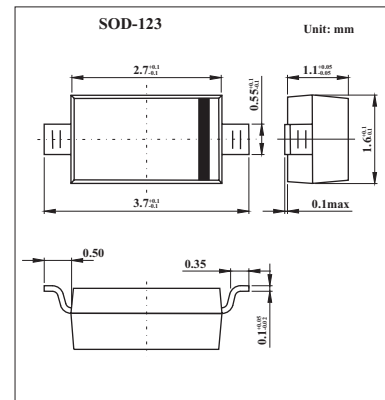


1N5817W-1N5819W

■ Features

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



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	1N5817W	1N5818W	1N5819W	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	20	30	40	V
Peak repetitive Peak reverse voltage	V _{RRM}				
Working Peak Reverse Voltage	V _{RWM}	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 _{FSM}	25			A
Repetitive Peak Forward Current	I _{FRM}	625			mA
Power Dissipation	P _d	250			mW
Thermal Resistance Junction to Ambient	R _{θJA}	500			K/W
Storage temperature	T _{STG}	-65 to 150			°C

■ Electrical Characteristics Ta = 25°C

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

■ Marking

NO.	1N5817W	1N5818W	1N5819W
Marking	SJ	SK	SL



1N5817W-1N5819W

■ Typical Characteristics

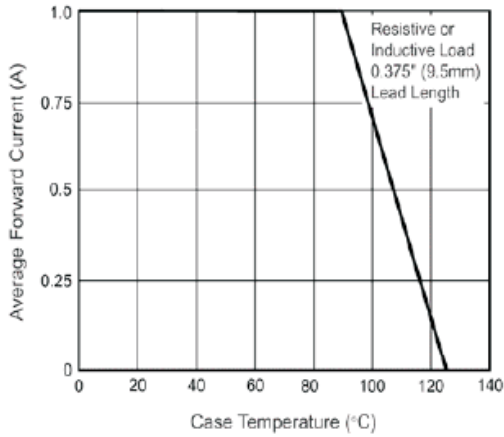


Fig.1 Forward Current Derating Curve

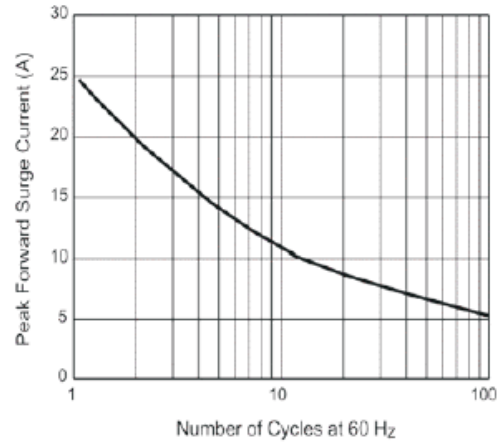


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

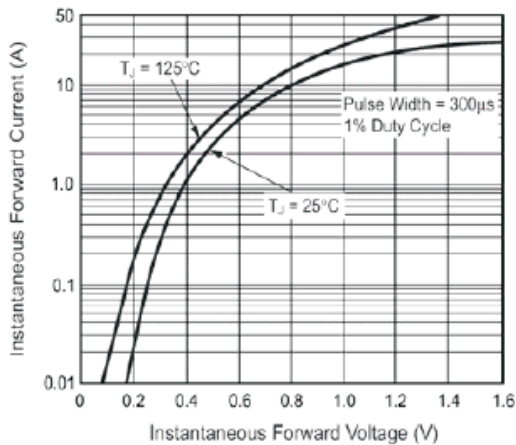


Fig.3 Typical Instantaneous Forward Characteristics

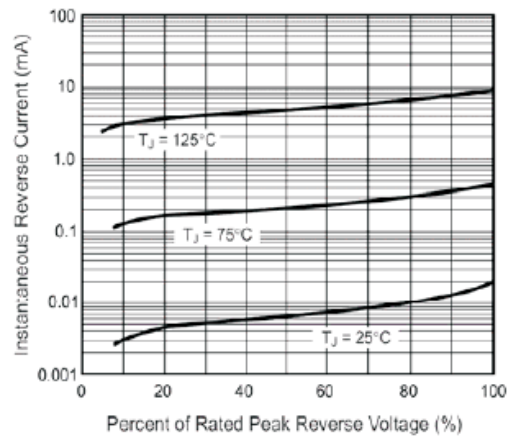


Fig.4 Typical Reverse Characteristics

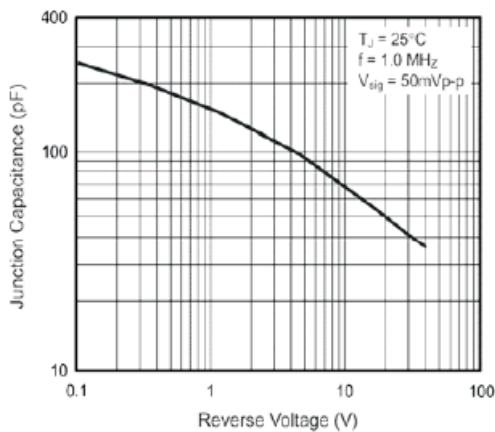


Fig.5 Typical Junction Capacitance

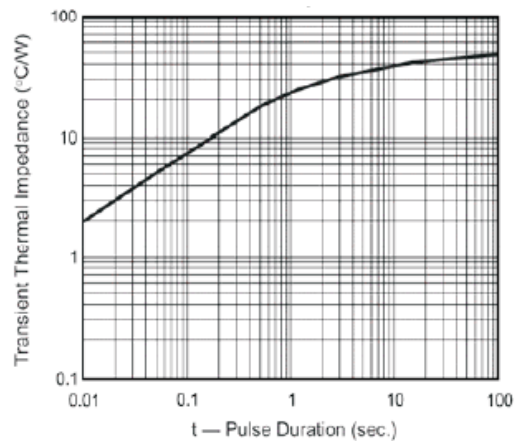


Fig.6 Typical Transient Thermal Impedance