

SCHOTTKY BARRIER DIODE

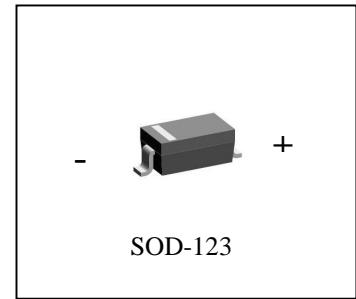
1N5819W

FEATURES

For use in low voltage, high frequency inverters

Free wheeling, and polarity protection applications.

MARKING: SL



MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Non-Repetitive Peak reverse voltage	V _{RM}	40	V
Peak Repetitive Peak reverse voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}	40	V
DC Blocking	V _R	40	V
RMS Reverse Voltage	R(RMS)	28	V
Average Rectified Output Current	I _O	1	A
Peak forward surge current @=8.3ms	I _{FSM}	9	A
Repetitive Peak Forward Current	I _{FRM}	1.5	A
Power Dissipation	P _d	500	mW
Thermal Resistance Junction to Ambient	R _{θJA}	250	°C/W
Storage temperature	T _{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R =1mA	40		V
Reverse voltage leakage current	I _R	V _R =40V		1	mA
Forward voltage	V _F	I _F =1A I _F =3A		0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF

1N5819W Typical Characteristics

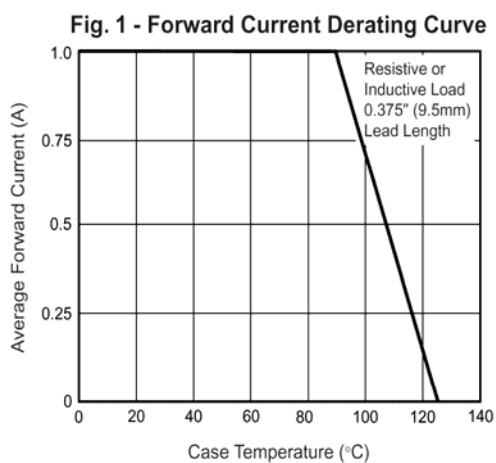


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

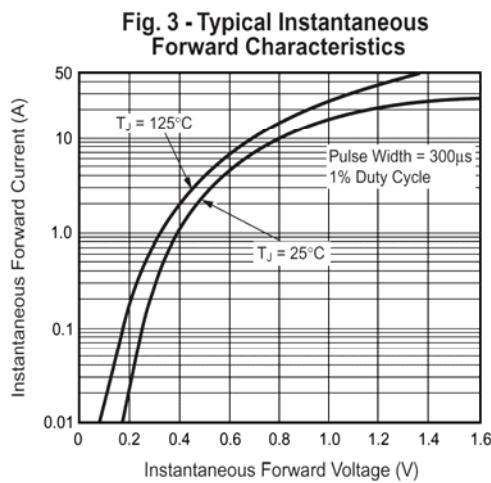
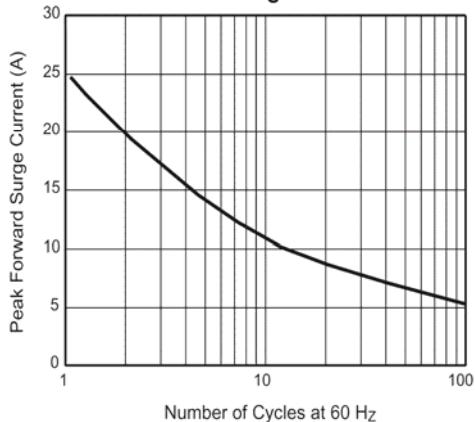


Fig. 4 - Typical Reverse Characteristics

