

SCHOTTKY BARRIER DIODE
1N5819WS
FEATURES

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


MARKING : 1N5819WS: SL

Maximum Ratings and Electrical Characteristics, Single Diode @TA=25 °C

Paramete	Symbol	1N5819WS	Unit
Non-Repetitive Peak reverse voltage	VRM	40	V
Peak repetitive Peak reverse voltage	VRRM		
Working Peak Reverse Voltage	VRWM	40	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	28	V
Average Rectified Output Current	IO	1	A
Peak forward surge current @=8.3ms	IFSM	9	A
Repetitive Peak Forward Current	IFR	1.5	A
Power Dissipation	Pd	250	mW
Thermal Resistanc Junction to Ambient	R _{JA}	500	°C/W
Storage temperature	TSTG	-65~+150	°C

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

Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V(BR)	IR= 1mA	40		V
Reverse voltage leakage current	I _R	VR=40V		1	mA
Forward voltage	V _F	IF=1A IF=3A		0.6 0.9	V
Diode capacitance	C	VR=4V, f=1MHz		120	pF

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Typical Characteristics

