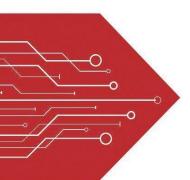
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Brodnet data speet

1N5819HW-MS HF





SOD-123

FEATURES

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

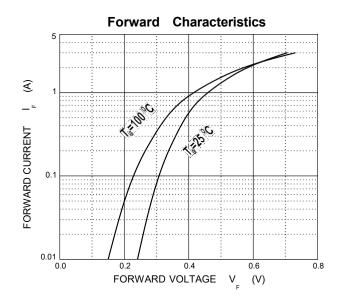
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25℃

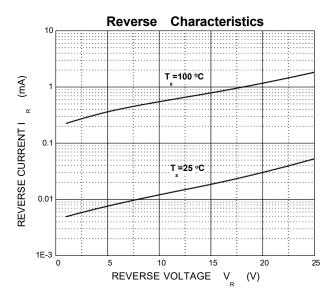
Parameter	Symbol	1N5819HW-MS	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	40	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	V _{R(RMS)}	28	V
Average Rectified Output Current	lo	1	А
Peak Forward Surge Current @t=8.3ms	I _{FSM}	9	А
Repetitive Peak Forward Current	I _{FRM}	1.5	Α
Power Dissipation	P _D	500	mW
Thermal Resistance Junction to Ambient	R _{0JA}	200	°C/W
Junction temperature	TJ	125	℃
Storage Temperature	T _{STG}	-55~+150	$^{\circ}$

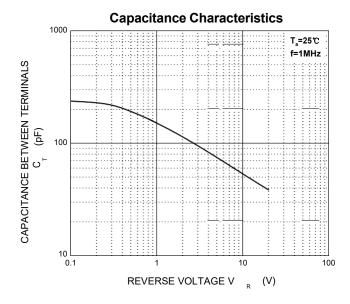
ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

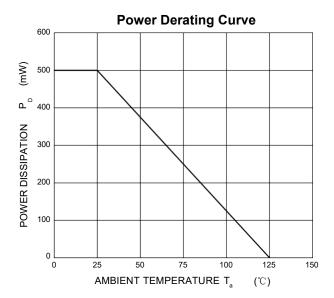
Parameter	Symbol	Test conditions	Min	Max	Unit
Reverse breakdown voltage	V _(BR)	I _R = 1mA	40		V
Reverse voltage leakage current	I _R	V _R =40V		1	mA
	V _F	I _F =1A I _F =3A		0.6 0.9	V
Diode capacitance	C _D	V _R =4V, f=1MHz		120	pF









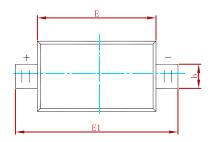


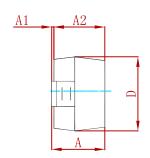


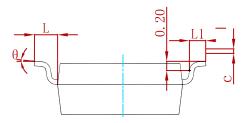




PACKAGE MECHANICAL DATA

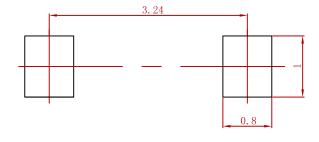






Cumbal	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.450	0.650	0.018	0.026	
С	0.080	0.150	0.003	0.006	
D	1.500	1.700	0.059	0.067	
E	2.600	2.800	0.102	0.110	
E1	3.550	3.850	0.140	0.152	
L	0.500 REF		0.020 REF		
L1	0.250	0.450	0.010	0.018	
θ	0°	8°	0°	8°	

Suggested Pad Layout



Note:

- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
1N5819HW-MS	SOD-123	3000



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