



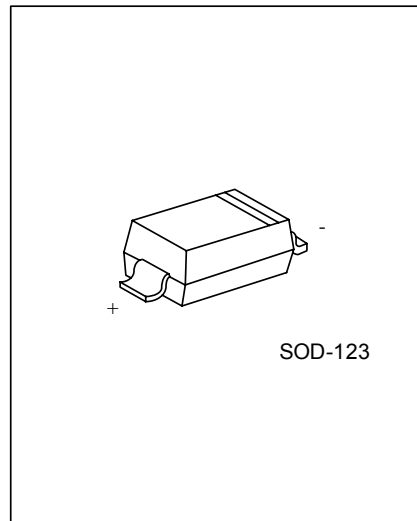
1N5819

DIODE

SCHOTTKY BARRIER DIODE

FEATURES

- * Schottky barrier chip
- * Low power loss, high efficiency.
- * Low forward voltage drop.
- * High surge current capability.
- * For use in low voltage, high frequency inverters, free wheeling diode, and polarity protection applications.



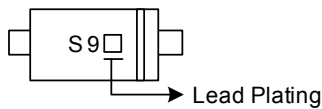
*Pb-free plating product number: 1N5819L

ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead Free Plating		
1N5819-CA2-R	1N5819L-CA2-R	SOD-123	Tape Reel

<p>1N5819L-CA2-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Plating</p>	<p>(1) R: Tape Reel (2) CA2: SOD-123 (3) L: Lead Free Plating Blank: Pb/Sn</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS (Single Diode @ $T_A=25$)

PARAMETER	SYMBOL	RATINGS	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum non-repetitive Peak Reverse Voltage	V_{RM}	40	V
Maximum DC Blocking Voltage	V_R	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V
Maximum RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Repetitive Peak Forward Current	I_{FRM}	625	mA
Non-repetitive Peak Forward Surge Current 8.3ms Single Half-Sine-Wave	I_{FSM}	25	A
Average Forward Rectified Output Current	I_{OUT}	1	A
Power Dissipation	P_D	250	mW
Storage Temperature Range	T_{STG}	-65~+150	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

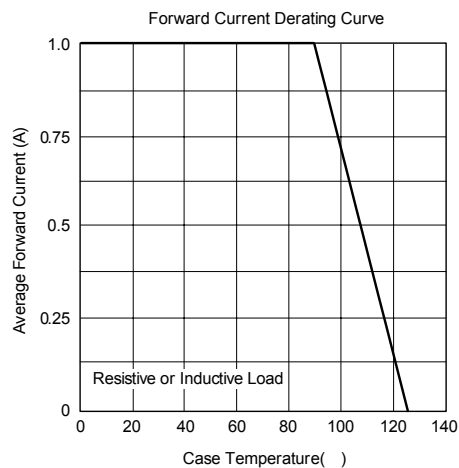
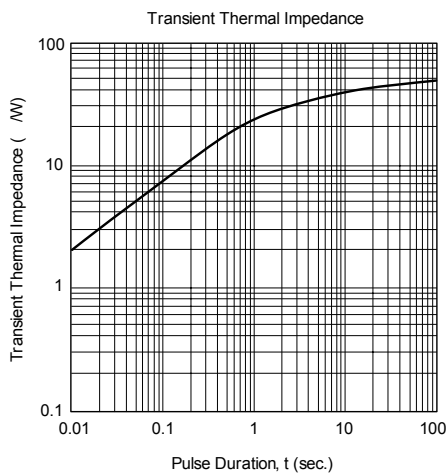
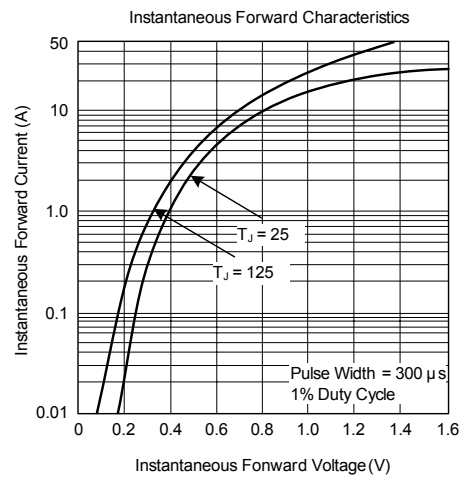
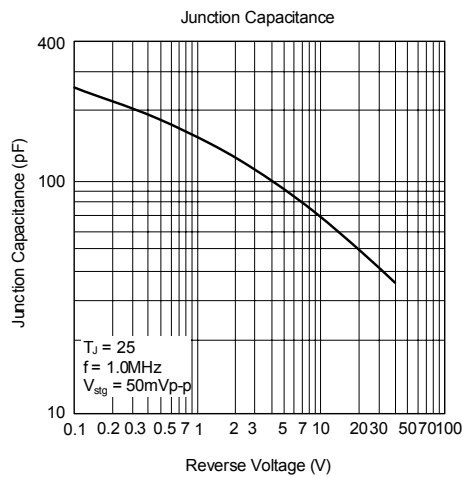
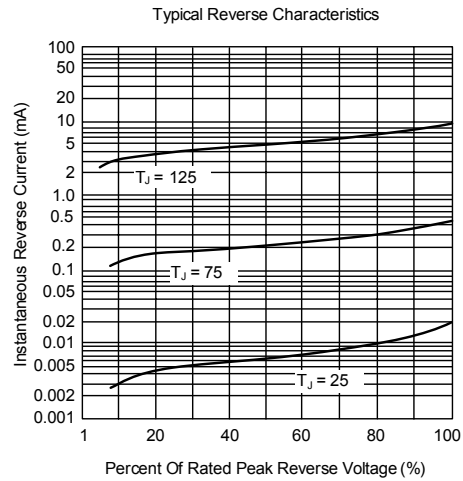
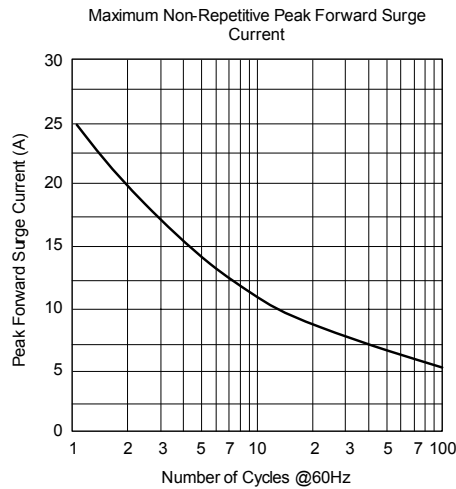
■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Thermal Ambient Resistance Junction to Ambient	θ_{JA}	500	/W

■ ELECTRICAL CHARACTERISTICS ($T_A=25$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	$I_F=1A$			0.6	V
		$I_F=3A$			0.9	V
Reverse Breakdown Voltage	BV_R	$I_R=1mA$	40			V
Reverse Leakage Current	I_R	$V_R=40V$			1	mA
Diode Capacitance	C_D	$V_R=4V, f=1MHz$			120	pF

TYPICAL CHARACTERISTICS



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