

1N5817 - 1N5819

Features

- 1.0 ampere operation at T_A = 90°C with no thermal runaway.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.



DU-41 COLOR BAND DENOTES CATHODE

Schottky Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter	Value			Units
		1N5817	1N5818	1N5819	
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	V
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ $T_A = 90^{\circ}C$	1.0			A
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	urrent 25			А
T _{stg}	Storage Temperature Range -65 to +125		5	°C	
TJ	Operating Junction Temperature -65 to +125			5	°C

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

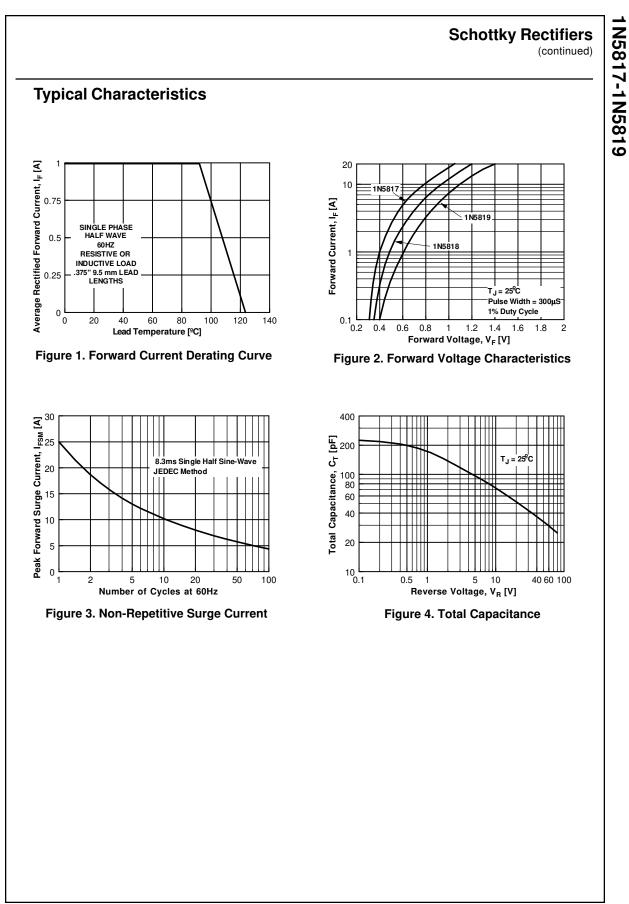
Thermal Characteristics

Symbol	Parameter	Value	Units
PD	Power Dissipation	1.25	W
$R_{_{ ext{ hetaJA}}}$	Thermal Resistance, Junction to Ambient	80	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter			Device		
		1N5817	1N5818	1N5819	Units	
V _F	Forward Voltage	@ 1.0 A	450	550	600	mV
		@ 3.0 A	750	875	900	mV
I _R	Reverse Current @ rated	IV_B $T_A = 25^{\circ}C$		0.5		mA
	_	$T_{A} = 100^{\circ}C$		10		mA
C _T	Total Capacitance	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		110		pF
-	$V_{\rm B} = 4.0 \text{ V}, \text{ f} = 1.0 \text{ N}$	ЛНz				

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