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# Central<sup>TM</sup> Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N5817  
1N5818  
1N5819

SCHOTTKY BARRIER RECTIFIER  
JEDEC DO-41 CASE

## DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N5817 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using a metal to silicon junction to yield low forward voltage drop and instantaneous reverse recovery times.

## MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	1N5817	1N5818	1N5819	UNIT
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	V
DC Blocking Voltage	$V_R$	20	30	40	V
RMS Reverse Voltage	$V_R(\text{RMS})$	14	21	28	V
Average Forward Surge Current ( $T_L=100^\circ\text{C}$ )	$I_O$		1.0		A
Peak Forward Surge Current	$I_{FSM}$		25		A
Operating and Storage Junction Temperature	$T_J, T_{STG}$		-65 TO +150		$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	1N5817		1N5818		1N5819		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	
$I_R$	$V_R=V_{RRM}$		1.0		1.0		1.0	mA
$I_R$	$V_R=V_{RRM}, T_A=100^\circ\text{C}$		10		10		10	mA
$V_F$	$I_F=0.1\text{A}$		0.320		0.330		0.340	V
$V_F$	$I_F=1.0\text{A}$		0.450		0.550		0.600	V
$V_F$	$I_F=3.1\text{A}$		0.750		0.875		0.900	V

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