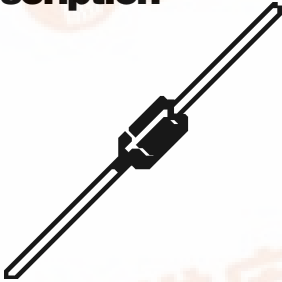




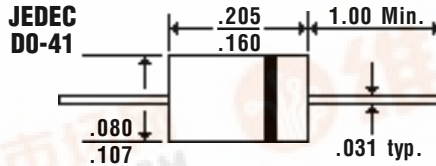
Data Sheet

# 1.0 Amp SCHOTTKY BARRIER RECTIFIERS

## Description



## Mechanical Dimensions



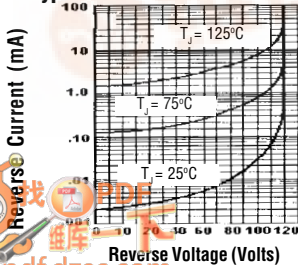
1N5817, 18 & 19 Series

## Features

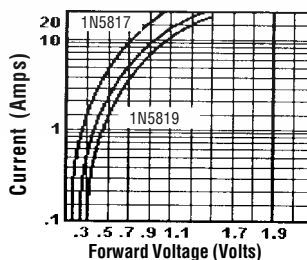
- EXTREMELY LOW  $V_F$
- LOW POWER LOSS — HIGH EFFICIENCY
- LOW STORED CHARGE; MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0

Electrical Characteristics @ 25°C.	IN5817, 18 & 19 Series			Units
Maximum Ratings	IN5817	IN5818	IN5819	
Peak Repetitive Reverse Voltage... $V_{RRM}$	20	30	40	Volts
Working Peak Reverse Voltage... $V_{RWM}$	20	30	40	Volts
DC Blocking Voltage... $V_{DC}$	20	30	40	Volts
RMS Reverse Voltage... $V_{R(rms)}$	14	21	28	Volts
Average Forward Rectified Current... $I_{F(av)}$ @ $T_A = 55^\circ C$	.....	1.0	.....	Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ @ Rated Load Conditions, 1/2 Wave, 60 HZ, $T_J = 75^\circ C$	.....	25	.....	Amps
Forward Voltage... $V_F$ @ $I_F = 3.0$ Amps	.450	.550	.600	Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_J = 25^\circ C$ ..... $T_J = 100^\circ C$ .....	1.0 ..... 10 .....	.....	mAmps mAmps
Typical Junction Capacitance... $C_J$	110	< ..... .70	> .....	pF
Operating & Storage Temperature Range... $T_{J, STRG}$	..... -65 to 125			°C

Typical Reverse Characteristics



Instantaneous Forward Characteristics



Typical Junction Capacitance

