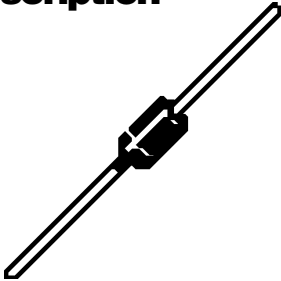


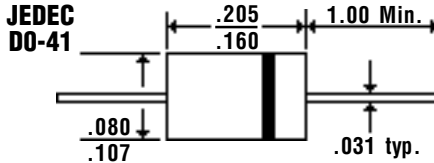
1.0 Amp SCHOTTKY BARRIER RECTIFIERS

1N5817, 18 & 19 Series

Description



Mechanical Dimensions

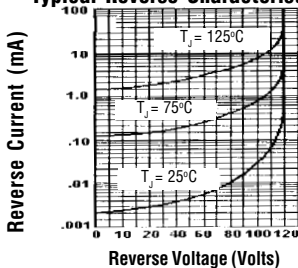


Features

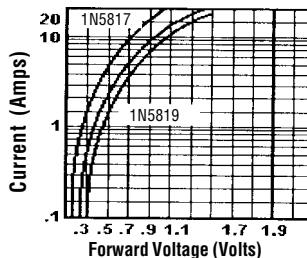
- EXTREMELY LOW V_F
- LOW POWER LOSS — HIGH EFFICIENCY
- LOW STORED CHARGE; MAJORITY CARRIER CONDUCTION
- MEETS UL SPECIFICATION 94V-0

| Electrical Characteristics @ 25°C. | 1N5817, 18 & 19 Series | | | Units |
|--|---|---------------------|--------|----------------|
| Maximum Ratings | 1N5817 | 1N5818 | 1N5819 | |
| 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... $I_{F(av)}$ @ $T_A = 55^\circ\text{C}$ | | 1.0 | | Amps |
| Non-Repetitive Peak Forward Surge Current... I_{FSM} @ Rated Load Conditions, 1/2 Wave, 60 HZ, $T_J = 75^\circ\text{C}$ | | 25 | | Amps |
| Forward Voltage... V_F @ $I_F = 3.0$ Amps | .450 | .550 | .600 | Volts |
| DC Reverse Current... I_R @ Rated DC Blocking Voltage | $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ | 1.0 10 | | mAmps mAmps |
| Typical Junction Capacitance... C_j | 110 | <70 > | | pF |
| Operating & Storage Temperature Range... T_J, T_{STRG} | -65 to 125 | | | °C |

Typical Reverse Characteristics



Instantaneous Forward Characteristics



Typical Junction Capacitance

