

# 1N5817M / 1N5818M / 1N5819M

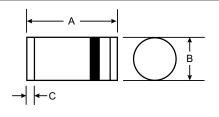
## 1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

#### Features

- High Current Capability
- Low Forward Voltage Drop
- Guard Ring for Transient Protection
- Glass Package for High Reliability
- Packaged for Surface Mount Applications

#### **Mechanical Data**

- Case: MELF, Glass
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode band
- Approx Weight: 0.25 gram
- Mounting Position: Any



MELF				
Dim	Min	Max		
Α	4.80	5.20		
В	2.40	2.60		
С	0.55 Nominal			
All Dimensions in mm				

## **Maximum Ratings and Electrical Characteristics** @ T<sub>A</sub> = 25°C unless otherwise specified

Characteristic	Symbol	1N5817M	1N5818M	1N5819M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	20	30	40	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	V
Maximum Average Forward Rectified Current $@T_T = 90^{\circ}C$ (Note 1)	IO	1.0			А
Maximum Forward Surge Current. Half Cycle @60Hz Superimposed on rated load, JEDEC Method	I <sub>FSM</sub>	25			А
$ \begin{array}{ll} \mbox{Maximum Forward Voltage Drop} & @ \mbox{ I}_{F} = 1.0 \mbox{A} \\ @ \mbox{ I}_{F} = 3.0 \mbox{A} \end{array} $	VF	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum Reverse Leakage Current @ $V_{RRM}$ @ $T_A = 25^{\circ}C$ @ $T_A = 100^{\circ}C$	I <sub>R</sub>	1.0 10		mA	
Typical Thermal Resistance, Junction to Ambient (Note 1)	R <sub>0JA</sub>	130			K/W
Typical Junction Capacitance (Note 2)	Cj	110			pF
Storage and Operating Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-60 to +125			°C

Notes: 1. Valid provided that terminals are kept at ambient temperature.

2. Measured at  $V_R = 4.0V$ , f = 1.0MHz.

