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

MELF		
Dim	**Min**	**Max**
A	4.80	5.20
B	2.40	2.60
C	0.55 Nominal	
All Dimensions in mm		

Mechanical Data

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

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	1N5817M	1N5818M	1N5819M	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Maximum Average Forward Rectified Current @T_T = 90°C (Note 1)	I_O	1.0			A
Maximum Forward Surge Current. Half Cycle @60Hz Superimposed on rated load, JEDEC Method	I_{FSM}	25			A
Maximum Forward Voltage Drop @ I_F = 1.0A @ I_F = 3.0A	V_F	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum Reverse Leakage Current @ V_{RRM} @ T_A = 25°C @ T_A = 100°C	I_R	1.0 10			mA
Typical Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	130			K/W
Typical Junction Capacitance (Note 2)	C_j	110			pF
Storage and Operating Temperature Range	T_j, T_{STG}	-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.

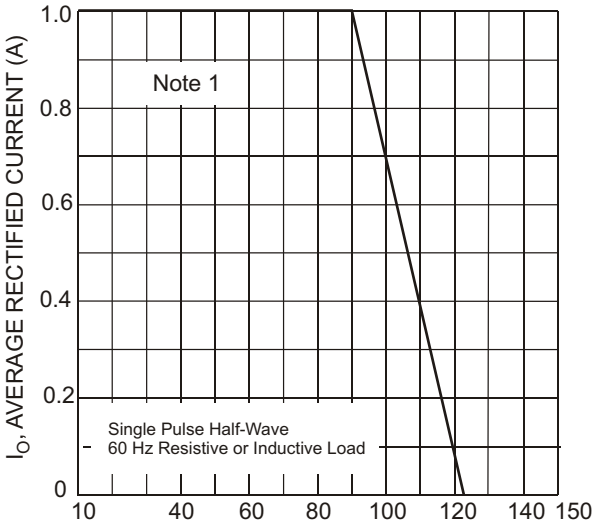

Fig. 1, Forward Current Derating Curve

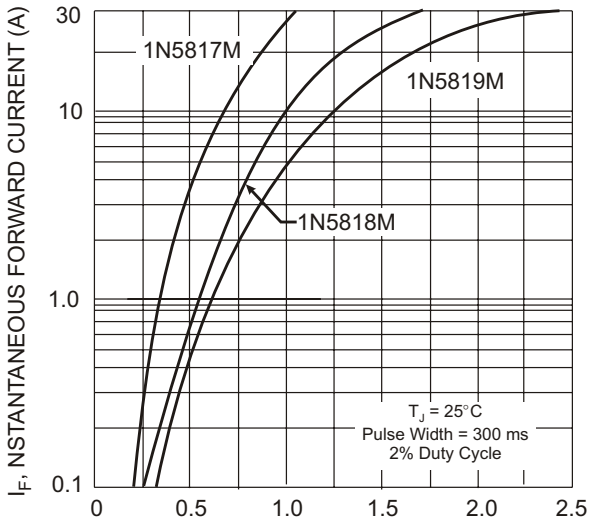

Fig. 2, Typical Forward Characteristics

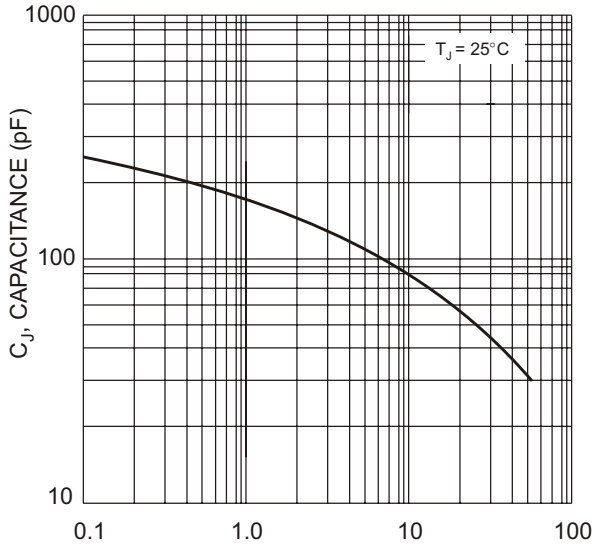

Fig. 3, Typical Junction Capacitance

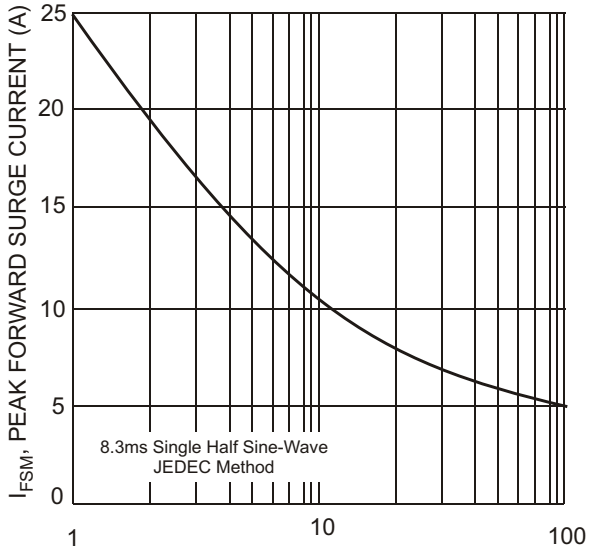

Fig. 4, Maximum Non-Repetitive Peak Fwd Surge Current