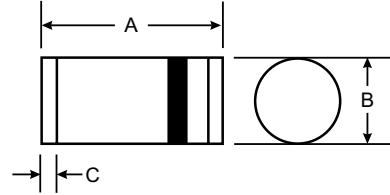


### Features

- 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
A	4.80	5.20
B	2.40	2.60
C	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 <sub>T</sub> = 90°C (Note 1)	I <sub>O</sub>	1.0			A
Maximum Forward Surge Current. Half Cycle @60Hz Superimposed on rated load, JEDEC Method	I <sub>FSM</sub>	25			A
Maximum Forward Voltage Drop @ I <sub>F</sub> = 1.0A @ I <sub>F</sub> = 3.0A	V <sub>F</sub>	0.450 0.750	0.550 0.875	0.600 0.900	V
Maximum Reverse Leakage Current @ V <sub>RRM</sub> @ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>R</sub>	1.0 10			mA
Typical Thermal Resistance, Junction to Ambient (Note 1)	R <sub>θJA</sub>	130			K/W
Typical Junction Capacitance (Note 2)	C <sub>j</sub>	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<sub>R</sub> = 4.0V, f = 1.0MHz.

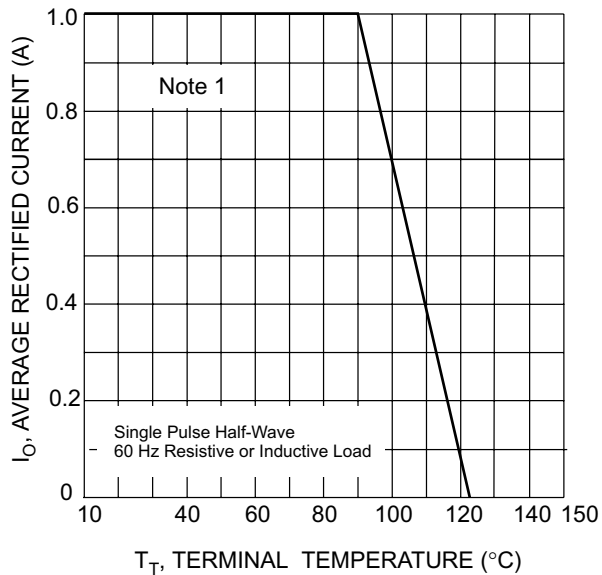


Fig. 1, Forward Current Derating Curve

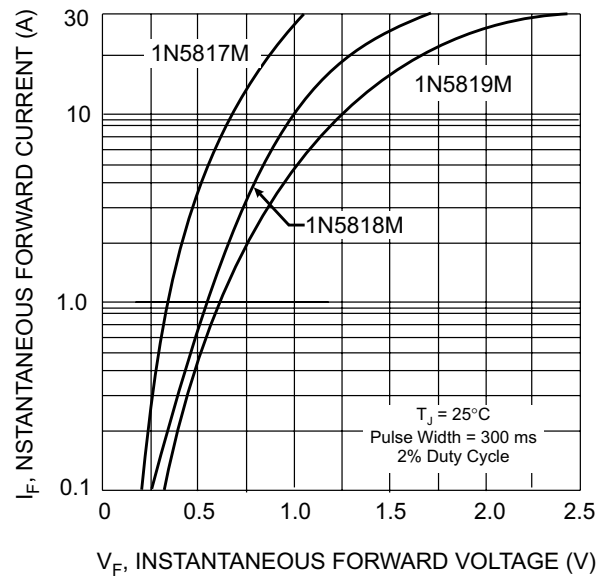


Fig. 2, Typical Forward Characteristics

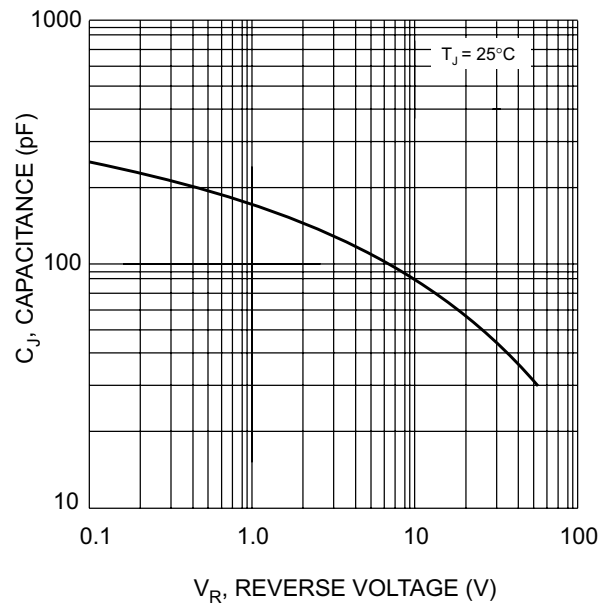


Fig. 3, Typical Junction Capacitance

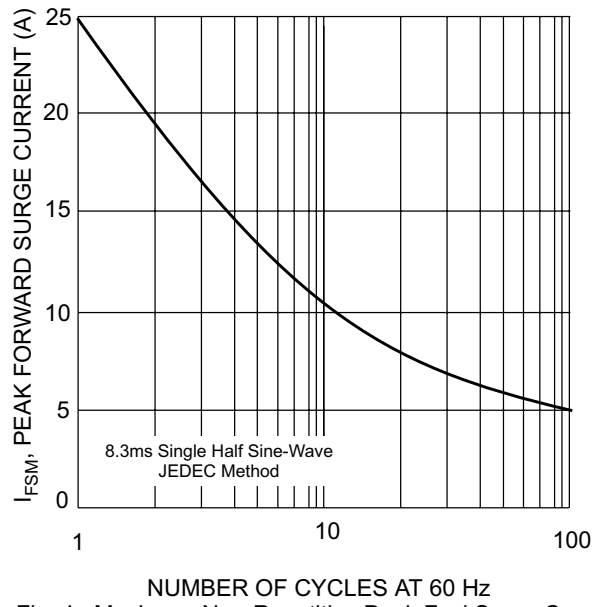


Fig. 4, Maximum Non-Repetitive Peak Fwd Surge Current