

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







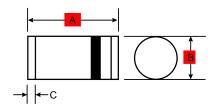


1N5817M / 1N5818M / 1N5819M

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,
Mathe et 202.

Method 208

Polarity: Cathode bandApprox Weight: 0.25 gramMounting 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_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)	lo	1.0			А
Maximum Forward Surge Current. Half Cycle @60Hz Superimposed on rated load, JEDEC Method	I _{FSM}	25		А	
	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)	$R_{ heta JA}$	130			K/W
Typical Junction Capacitance (Note 2)	Cj	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.

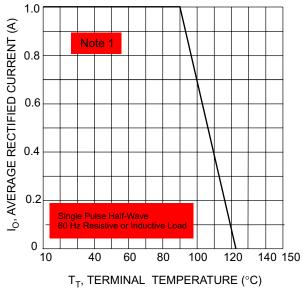
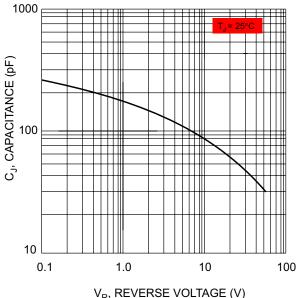
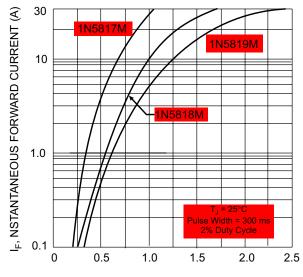


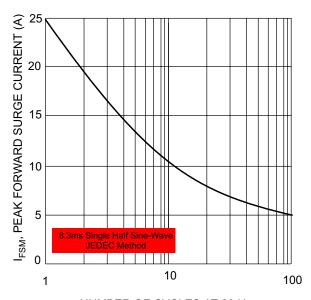
Fig. 1, Forward Current Derating Curve



 $V_{\rm R}$, REVERSE VOLTAGE (V) Fig. 3, Typical Junction Capacitance



V_F, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2, Typical Forward Characteristics



NUMBER OF CYCLES AT 60 Hz Fig. 4, Maximum Non-Repetitive Peak Fwd Surge Current