Zibo Seno Electronic Engineering Co., Ltd.



5817SMJ - 5819SMJ

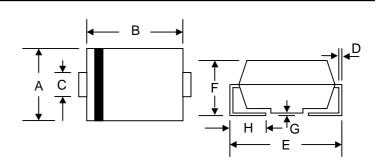




1.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity **Protection Applications**



Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)
- Lead Free: For RoHS / Lead Free Version

SMB/DO-214AA					
Dim	Min	Max			
Α	3.30	3.94			
В	4.06	4.57			
С	1.96	2.21			
D	0.15	0.31			
E	5.00	5.59			
F	2.00	2.62			
G	0.10	0.20			
Н	0.76	1.52			
All Dimensions in mm					

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

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	5817SMJ	5818SMJ	5819SMJ	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	V
RMS Reverse Voltage	VR(RMS)	14	21	28	V
Average Rectified Output Current (Note 1) @T _L = 75°C	lo	1.0			А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	İFSM	25			А
Forward Voltage @I _F = 1.0A	V _{FM}	0.55			V
	IRM	0.08 10			mA
Typical Junction Capacitance (Note 2)	Cj	110			pF
Typical Thermal Resistance Junction to Lead (Note 1)	$R_{ heta}JL$	60			K/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150			°C

Note: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

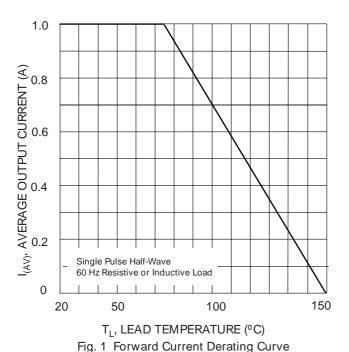
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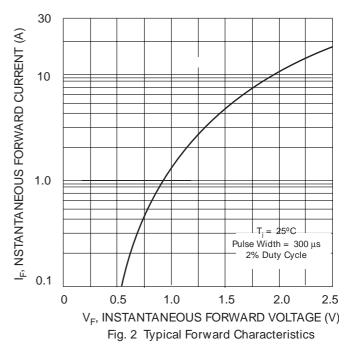


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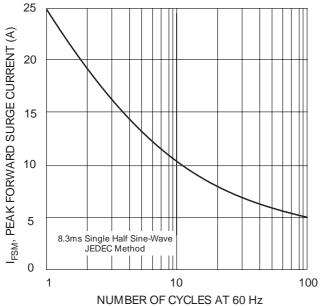
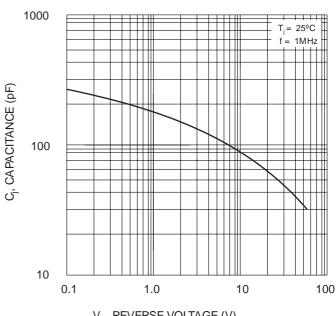


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current



 V_R , REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance