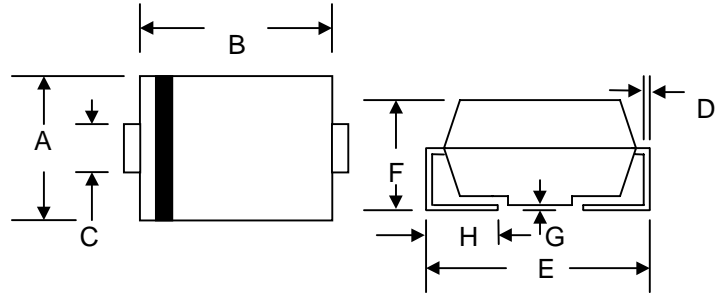


3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 100A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Low Profile 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.)

SMB/DO-214AA		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.11
D	0.152	0.305
E	5.08	5.59
F	2.13	2.44
G	0.051	0.203
H	0.76	1.27
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	SR32	SR33	SR34	SR35	SR36	SR38	SR39	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	V	
Working Peak Reverse Voltage	V_{RWM}									
DC Blocking Voltage	V_R									
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	64	V	
Average Rectified Output Current @ $T_L = 75^\circ\text{C}$	I_O	3.0							A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100							A	
Forward Voltage @ $I_F = 3.0\text{A}$	V_{FM}	0.50			0.75		0.85		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	3.0					20			mA
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	55							K/W	
Operating Temperature Range	T_j	-65 to +125							$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150							$^\circ\text{C}$	

Note: 1. Mounted on P.C. Board with 14mm² copper pad areas

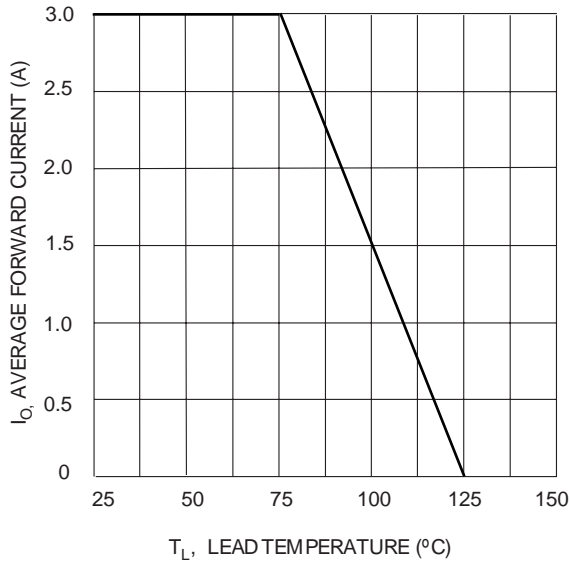


Fig. 1 Forward Current Derating Curve

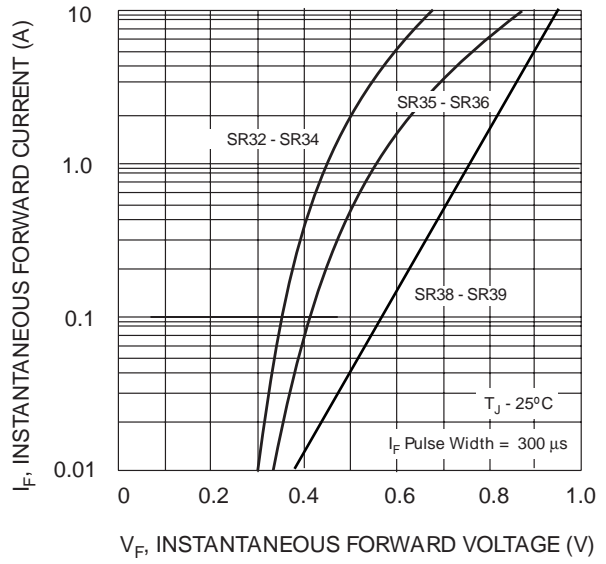


Fig. 2 Typical Forward Characteristics

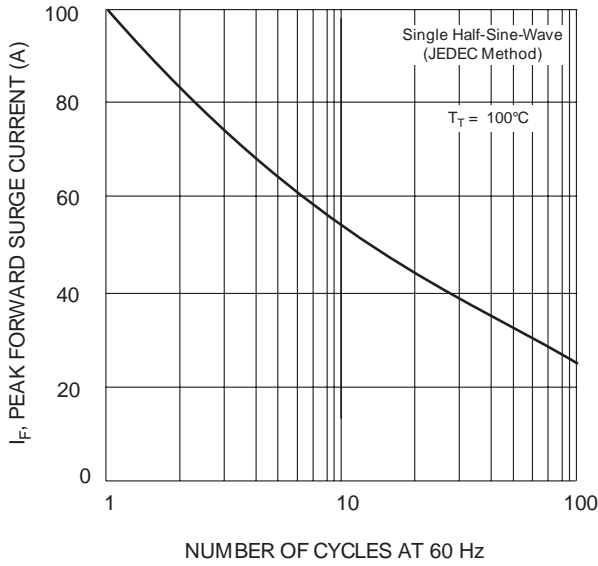


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

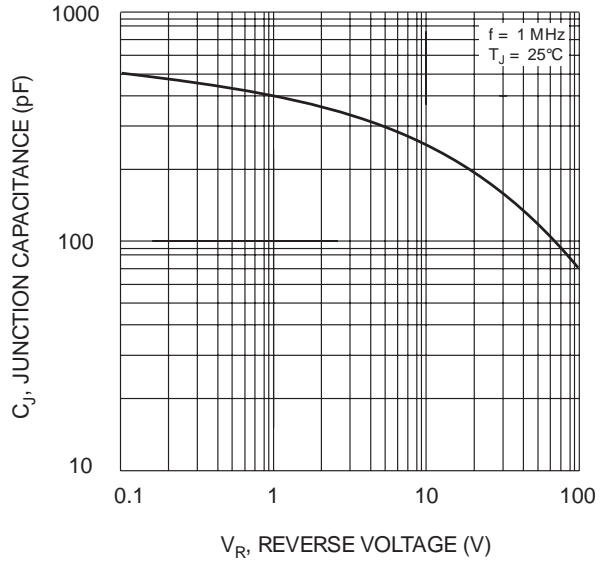


Fig. 4 Typical Junction Capacitance

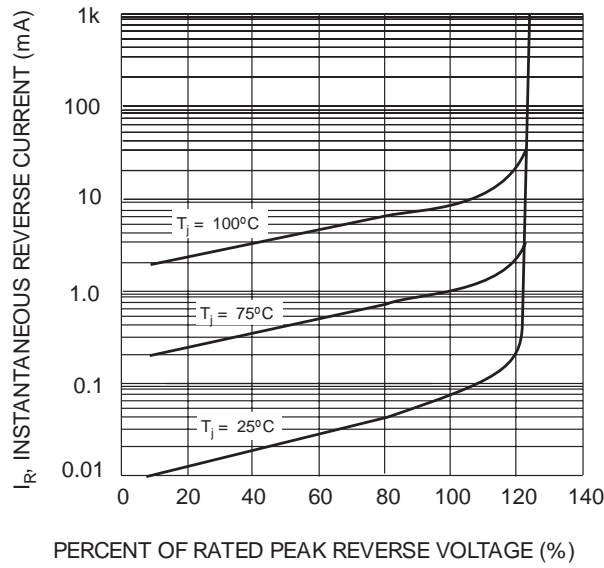


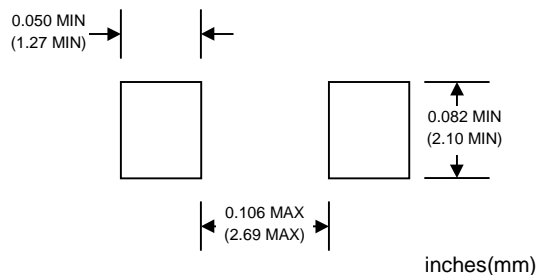
Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SR32-T1	SMB	500/Tape & Reel
SR32-T3	SMB	3000/Tape & Reel
SR33-T1	SMB	500/Tape & Reel
SR33-T3	SMB	3000/Tape & Reel
SR34-T1	SMB	500/Tape & Reel
SR34-T3	SMB	3000/Tape & Reel
SR35-T1	SMB	500/Tape & Reel
SR35-T3	SMB	3000/Tape & Reel
SR36-T1	SMB	500/Tape & Reel
SR36-T3	SMB	3000/Tape & Reel
SR38-T1	SMB	500/Tape & Reel
SR38-T3	SMB	3000/Tape & Reel
SR39-T1	SMB	500/Tape & Reel
SR39-T3	SMB	3000/Tape & Reel

Products listed in **bold** are WTE **Preferred** devices.
 ♦T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.
 Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417

Email: sales@wontop.com

Internet: http://www.wontop.com

We power your everyday.