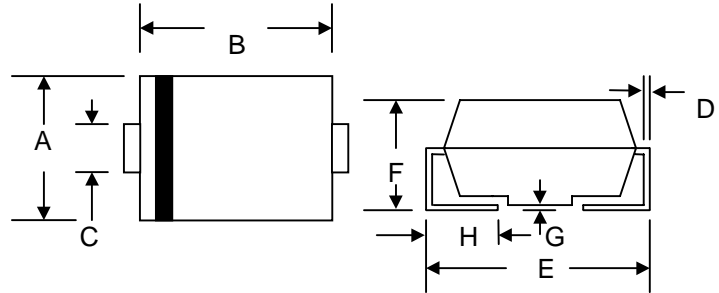


1.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 30A Peak
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-0



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: 0.064 grams (approx.)

SMA/DO-214AC		
Dim	Min	Max
A	2.50	2.90
B	4.00	4.60
C	1.40	1.60
D	0.152	0.305
E	4.80	5.28
F	2.00	2.44
G	0.051	0.203
H	0.76	1.52
All Dimensions in mm		

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

Characteristic	Symbol	SS12	SS13	SS14	SS15	SS16	SS18	SS19	S100	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	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	71	V	
Average Rectified Output Current @ $T_L = 75^\circ\text{C}$	I_O	1.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30								A	
Forward Voltage @ $I_F = 1.0\text{A}$	V_{FM}	0.55			0.70		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}					0.5					mA
						20					
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	88								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 5.0mm² copper pad areas

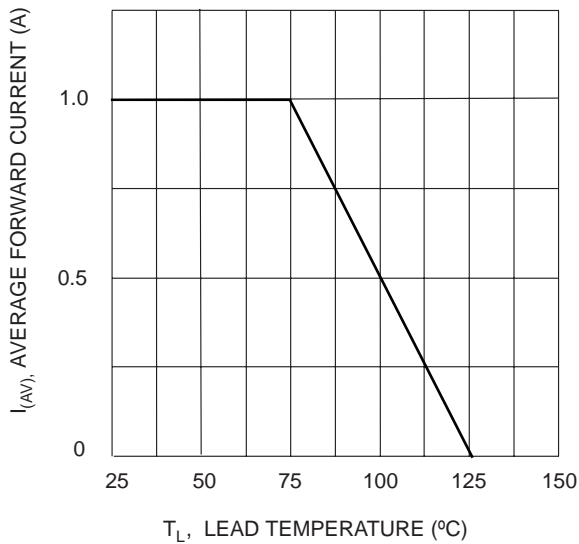


Fig. 1 Forward Current Derating Curve

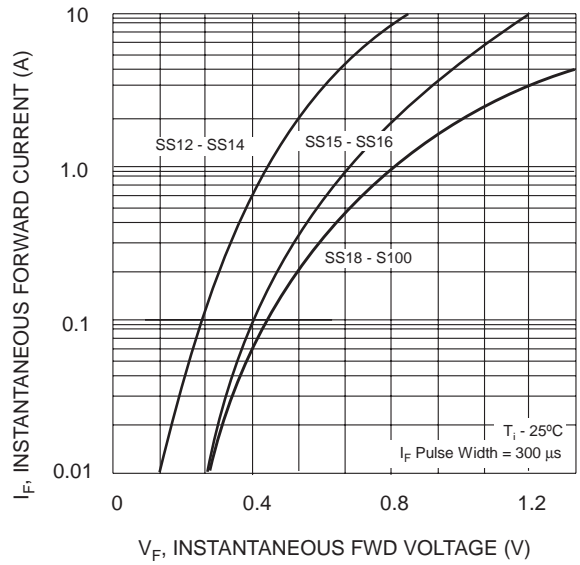


Fig. 2 Typ. Forward Characteristics

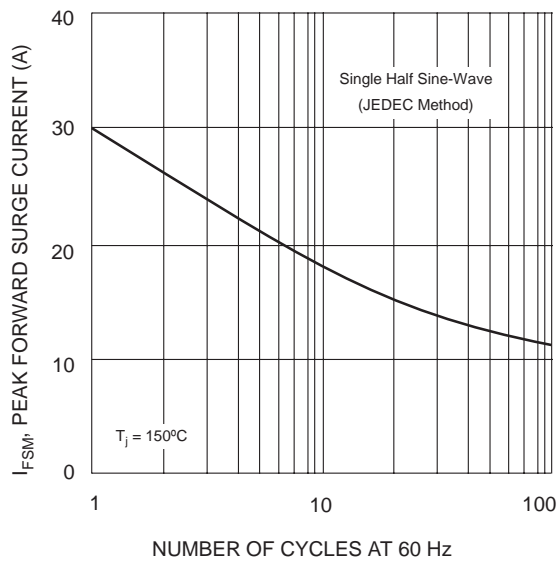


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

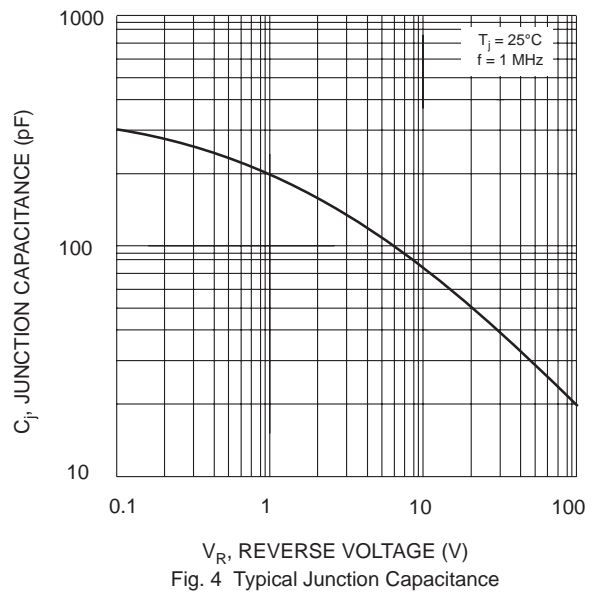


Fig. 4 Typical Junction Capacitance

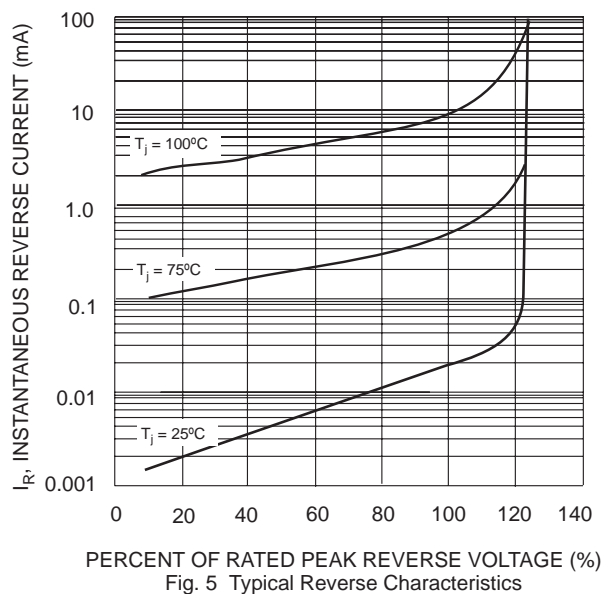


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

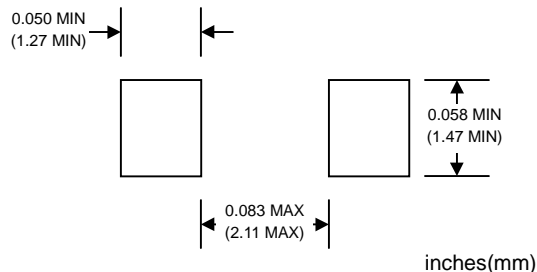
Product No.♦	Package Type	Shipping Quantity
SS12-T1	SMA	1800/Tape & Reel
SS12-T3	SMA	7500/Tape & Reel
SS13-T1	SMA	1800/Tape & Reel
SS13-T3	SMA	7500/Tape & Reel
SS14-T1	SMA	1800/Tape & Reel
SS14-T3	SMA	7500/Tape & Reel
SS15-T1	SMA	1800/Tape & Reel
SS15-T3	SMA	7500/Tape & Reel
SS16-T1	SMA	1800/Tape & Reel
SS16-T3	SMA	7500/Tape & Reel
SS18-T1	SMA	1800/Tape & Reel
SS18-T3	SMA	7500/Tape & Reel
SS19-T1	SMA	1800/Tape & Reel
SS19-T3	SMA </td <td>7500/Tape & Reel</td>	7500/Tape & Reel
S100-T1	SMA	1800/Tape & Reel
S100-T3	SMA	7500/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



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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

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