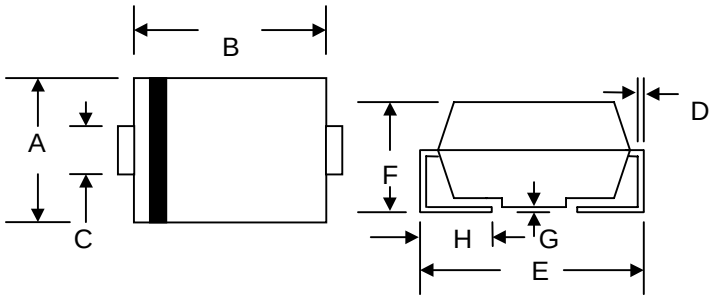
SR32 – SR39

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°C unless otherwise specified

Characteristic	Symbol	SR32	SR33	SR34	SR35	SR36	SR38	SR39	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	90	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	64	V
Average Rectified Output Current @T_L = 75°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 = 3.0A	V_{FM}	0.50			0.75		0.85		V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°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							°C
Storage Temperature Range	T_{STG}	-65 to +150							°C

Note: 1. Mounted on P.C. Board with 14mm^2 copper pad areas

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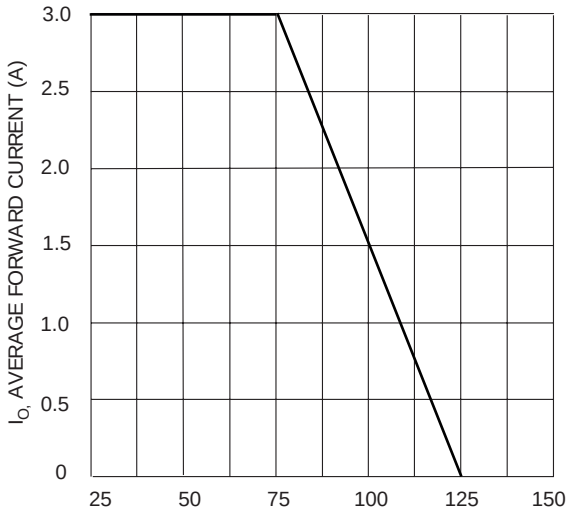


Fig. 1 Forward Current Derating Curve

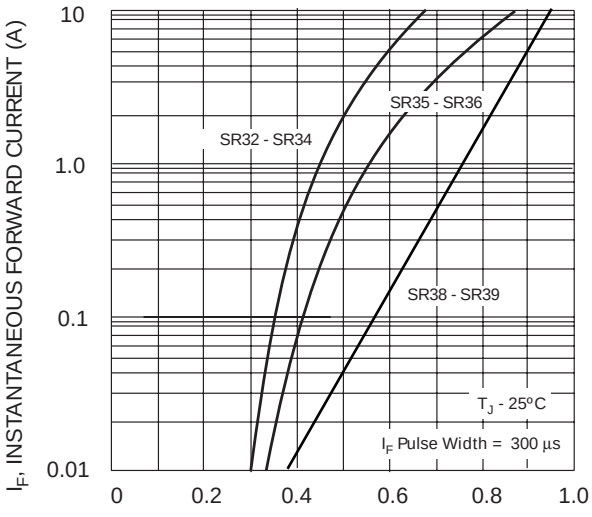


Fig. 2 Typical Forward Characteristics

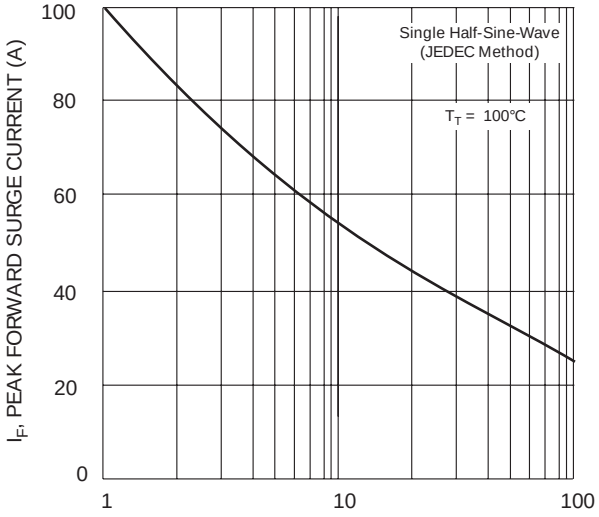


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

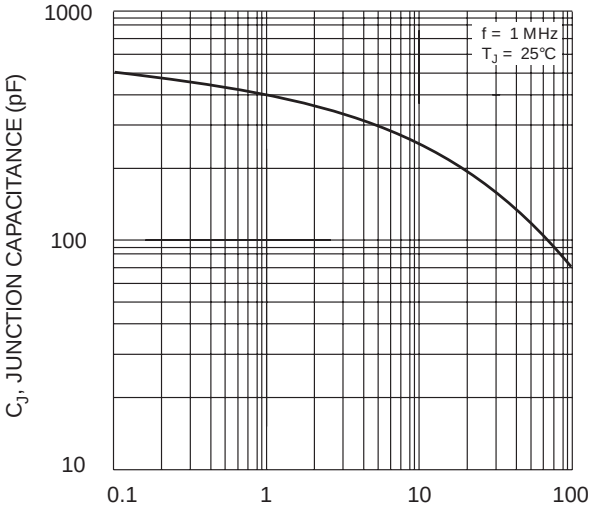


Fig. 4 Typical Junction Capacitance

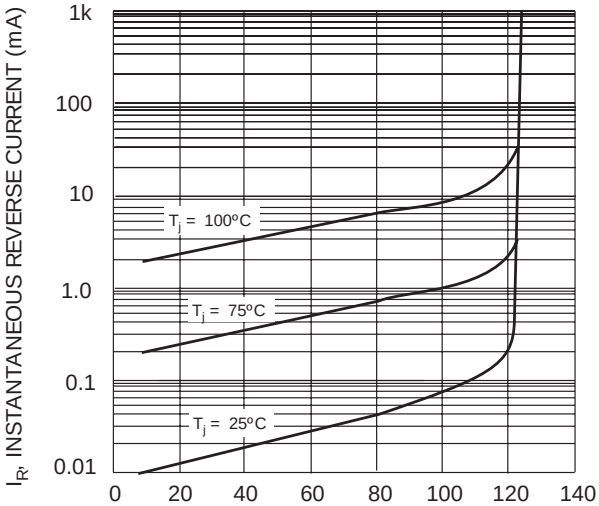


Fig. 5 Typical Reverse Characteristics

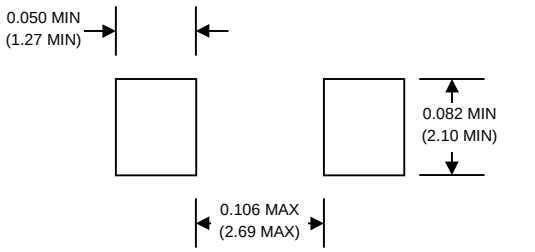
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ORDERING INFORMATION

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



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