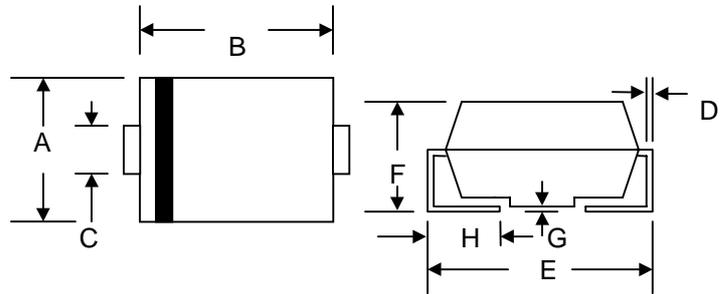


2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- Surge Overload Rating to 50A 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: 0.064 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	SR22	SR23	SR24	SR25	SR26	SR28	SR29	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 @ $T_L = 105^\circ\text{C}$	I_O	2.0							A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A	
Forward Voltage @ $I_F = 2.0\text{A}$	V_{FM}	0.50			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					20			mA
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	75							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 8.0mm² copper pad areas

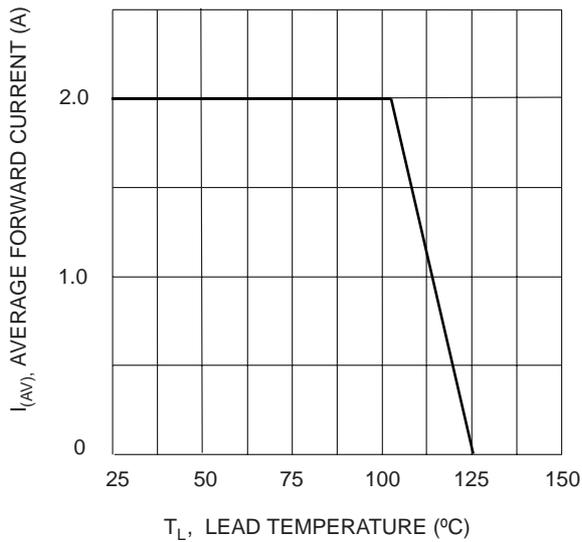


Fig. 1 Forward Current Derating Curve

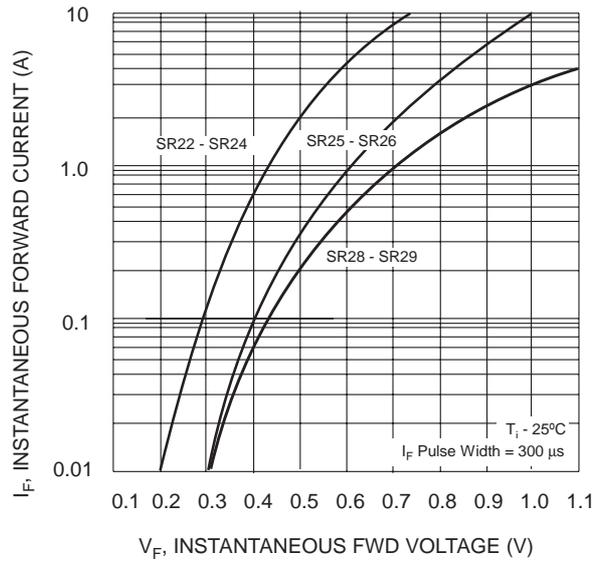


Fig. 2 Typ. Forward Characteristics

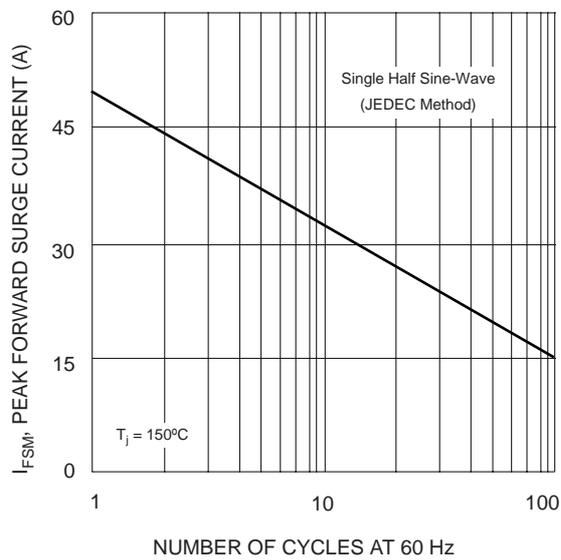


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

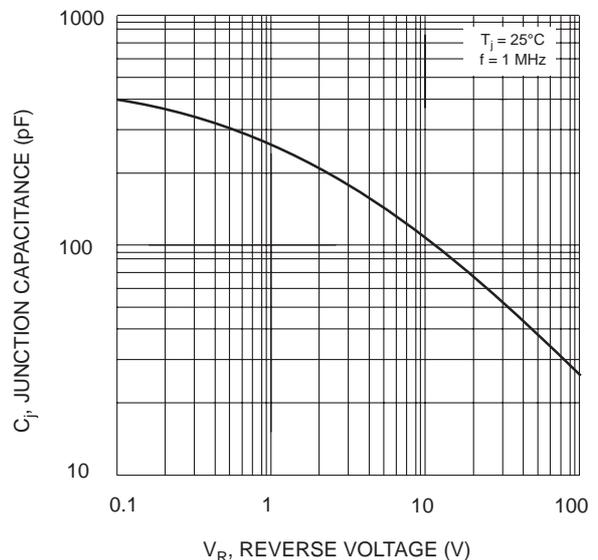


Fig. 4 Typical Junction Capacitance

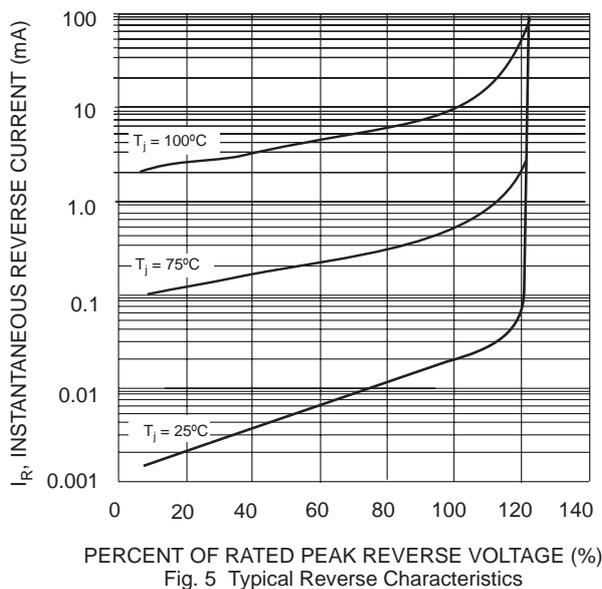


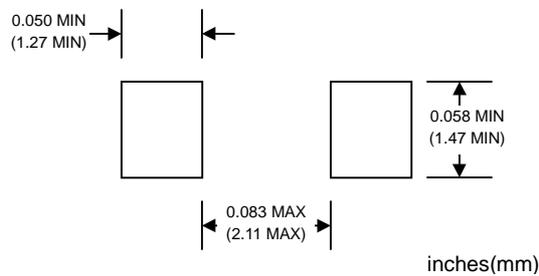
Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SR22-T1	SMA	1800/Tape & Reel
SR22-T3	SMA	7500/Tape & Reel
SR23-T1	SMA	1800/Tape & Reel
SR23-T3	SMA	7500/Tape & Reel
SR24-T1	SMA	1800/Tape & Reel
SR24-T3	SMA	7500/Tape & Reel
SR25-T1	SMA	1800/Tape & Reel
SR25-T3	SMA	7500/Tape & Reel
SR26-T1	SMA	1800/Tape & Reel
SR26-T3	SMA	7500/Tape & Reel
SR28-T1	SMA	1800/Tape & Reel
SR28-T3	SMA	7500/Tape & Reel
SR29-T1	SMA	1800/Tape & Reel
SR29-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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