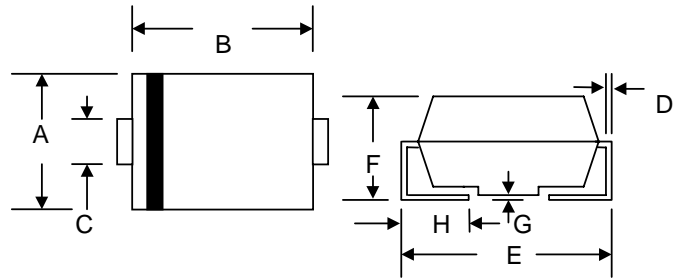


## 2.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### 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 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 @ $T_L = 105^{\circ}\text{C}$	$I_O$	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 8.0mm<sup>2</sup> copper pad areas

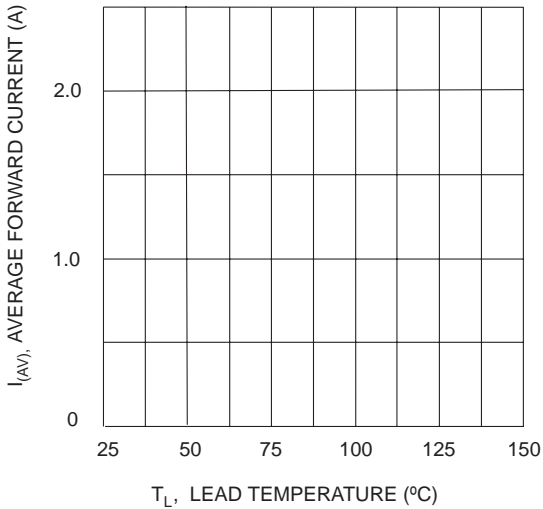


Fig. 1 Forward Current Derating Curve

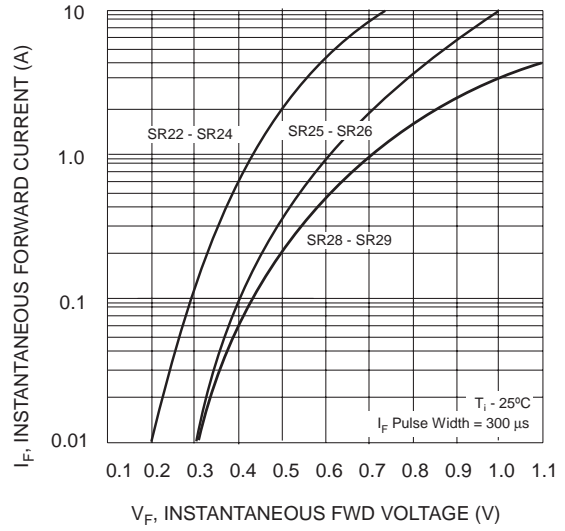


Fig. 2 Typ. Forward Characteristics

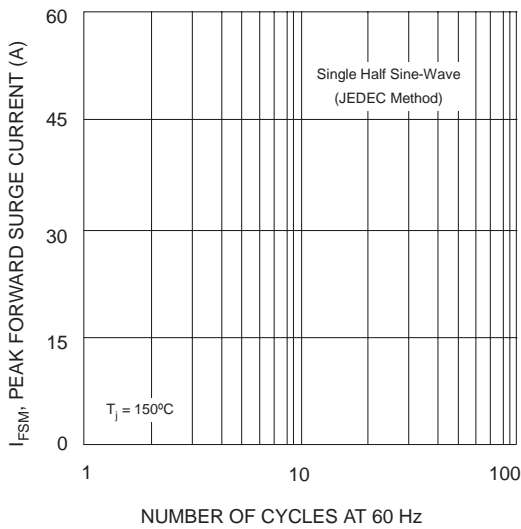


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

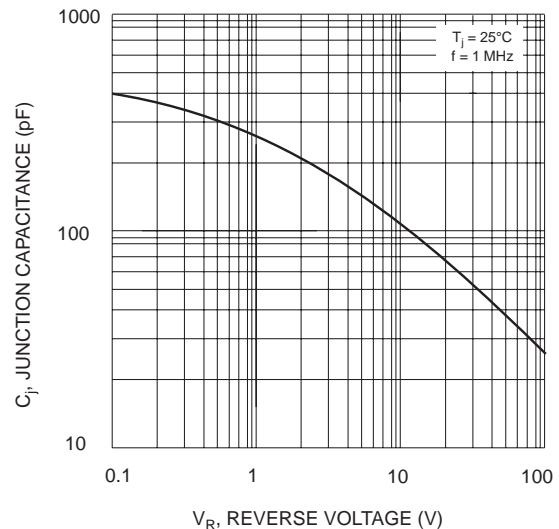


Fig. 4 Typical Junction Capacitance

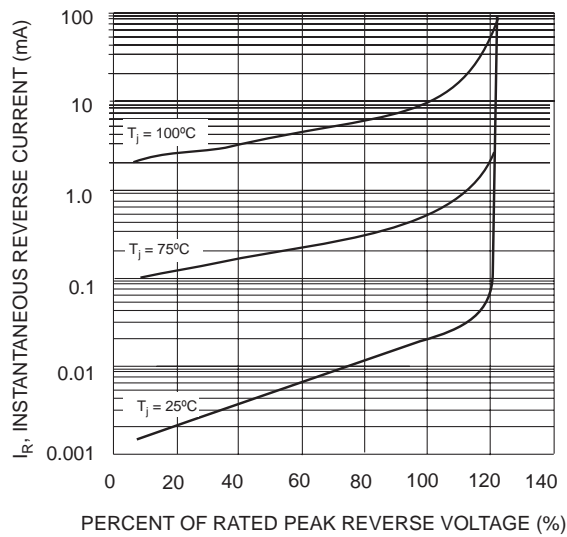


Fig. 5 Typical Reverse Characteristics

## ORDERING INFORMATION

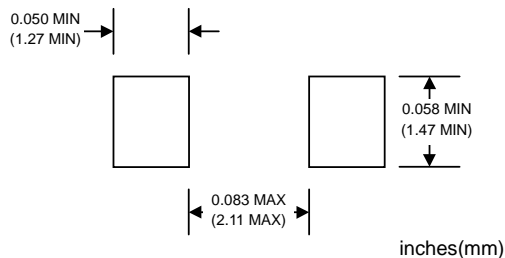
Product No.◆	Package Type	Shipping Quantity
SR22-T1	SMA	1800/Tape & Reel
<b>SR22-T3</b>	SMA	7500/Tape & Reel
SR23-T1	SMA	1800/Tape & Reel
<b>SR23-T3</b>	SMA	7500/Tape & Reel
SR24-T1	SMA	1800/Tape & Reel
<b>SR24-T3</b>	SMA	7500/Tape & Reel
SR25-T1	SMA	1800/Tape & Reel
<b>SR25-T3</b>	SMA	7500/Tape & Reel
SR26-T1	SMA	1800/Tape & Reel
<b>SR26-T3</b>	SMA </td <td>7500/Tape &amp; Reel</td>	7500/Tape & Reel
SR28-T1	SMA	1800/Tape & Reel
<b>SR28-T3</b>	SMA	7500/Tape & Reel
SR29-T1	SMA	1800/Tape & Reel
<b>SR29-T3</b>	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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