

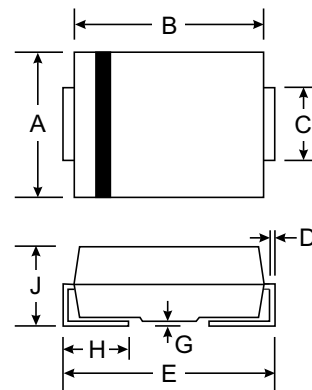
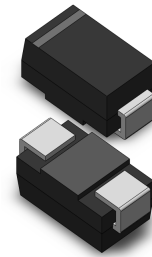
**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 3.0 A**

### Features

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

### Mechanical Data

- Case: SMA/DO-214AC, 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	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

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

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	B320A	B330A	B340A	B350A	B360A	B380A	B390A	B3100A	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	100	V		
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	56	64	71	V		
Average Rectified Output Current @ $T_L = 105^\circ\text{C}$	$I_O$	3.0								A		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80								A		
Forward Voltage @ $I_F = 2.0\text{A}$	$V_{FM}$	0.55			0.70		0.85			V		
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	$I_{RM}$	1.0					20				mA	
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$	10					50					$^\circ\text{C/W}$
Operating Temperature Range	$T_j$	-65 to +125									$^\circ\text{C}$	
Storage Temperature Range	$T_{STG}$	-65 to +150									$^\circ\text{C}$	

## RATINGS AND CHARACTERISTIC CURVES B320A THRU B3100A

