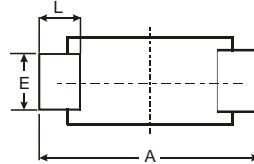
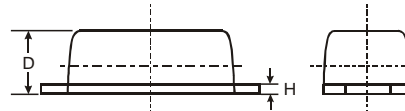
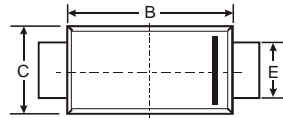
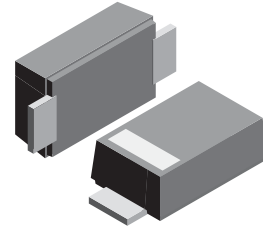


**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 3.0 A**

### Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Plastic Material - UL Flammability Classification 94V-0
- High Reliability
- High Current Capability and Low VF



SMAF			
Dim	Min	Max	Typ
A	4.75	4.85	4.80
B	3.68	3.72	3.70
C	2.57	2.63	2.60
D	0.097	1.03	1.00
E	1.38	1.42	1.40
H	0.13	0.17	0.15
L	0.63	0.67	0.65
<b>All Dimensions in mm</b>			

### Mechanical Data

- Case: SMAF, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0018 ounce, 0.064 grams



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	SS32AF	SS33AF	SS34AF	SS35AF	SS36AF	SS38AF	SS310AF	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub>(AV)</sub>	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100.0							A
Maximum instantaneous forward voltage at 3.0A	V <sub>F</sub>	0.55		0.70		0.85		V	
Maximum DC reverse current at rated DC blocking voltage <small>T<sub>A</sub>=25°C</small> <small>T<sub>A</sub>=100°C</small>	I <sub>R</sub>	0.5			10			mA	
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	500			300			pF	
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	55.0							°C/W
Operating junction temperature range	T <sub>J</sub>	-65 to +125			-65 to +150			°C	
Storage temperature range	T <sub>STG</sub>	-65 to +150							°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.  
 2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES SS32AF THRU SS310AF

