

<b>SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER</b>	Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes
<p style="text-align: center;"><b>SMAF</b></p> <p style="text-align: center;"><i>Dimensions in inches and (millimeters)</i></p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>➤ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>➤ For surface mounted applications</li> <li>➤ Built-in strain relief, ideal for automated placement</li> <li>➤ Low reverse leakage</li> <li>➤ High forward surge current capability</li> <li>➤ High temperature soldering guaranteed 250°C/10 seconds at terminals</li> </ul> <p><b>Mechanical Data</b></p> <p><b>Case</b> : Molded plastic body</p> <p><b>Terminals</b> : Solder plated, solderable per MIL-STD-750, Method 2026</p> <p><b>Polarity</b> : Polarity symbol marking on body</p> <p><b>Mounting Position</b> : Any</p> <p><b>Weight</b> : 0.0014 ounce, 0.038 grams</p>

## Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS32F	SS34F	SS36F	SS38F	SS310F	SS315F	SS320F	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	40	60	80	100	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	105	140	V
Maximum DC blocking voltage	$V_{DC}$	20	40	60	80	100	150	200	V
Maximum average forward rectified current at $T_L=100^\circ\text{C}$	$I_{(AV)}$	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	80.0							A
Maximum instantaneous forward voltage at 3.0A	$V_F$	0.55	0.70	0.85	0.95				V
Maximum DC reverse current $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 125^\circ\text{C}$	$I_R$	0.5 50		0.05 10					mA
Typical thermal resistance	$R_{QJA}$	70.0							°C/W
Operating junction temperature range	$T_J$	-55 to +150							°C
Storage temperature range	$T_{STG}$	-55 to +150							°C

**Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

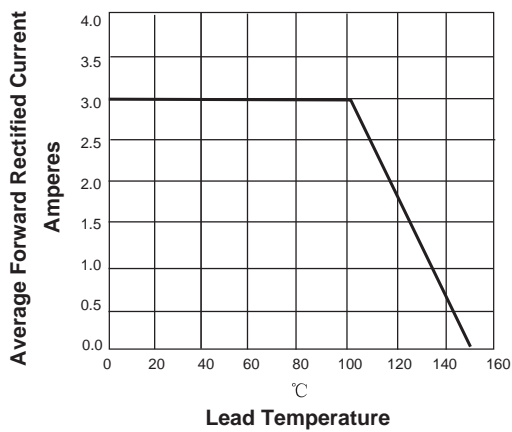


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

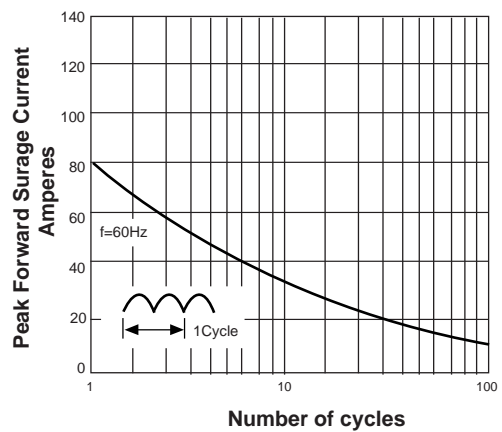


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

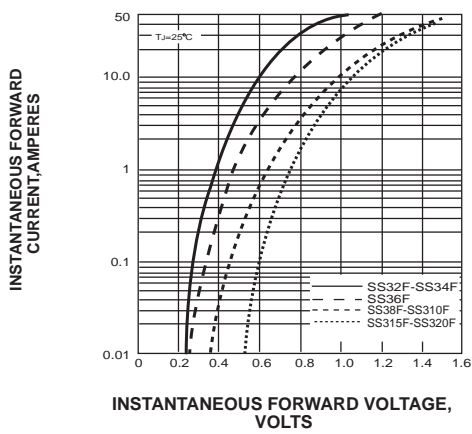


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

