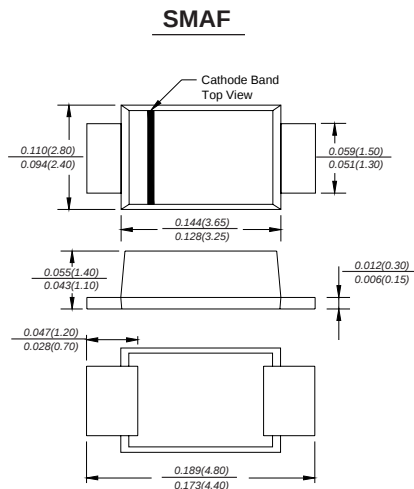




Dimensions in inches and (millimeters)

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

MECHANICAL DATA

Case: SMAF molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0014 ounce, 0.038 grams

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%.

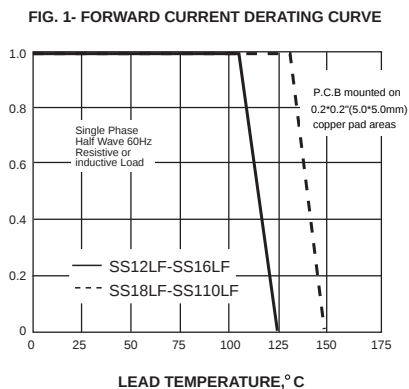
	SYMBOLS	SS12LF	SS13LF	SS14LF	SS15LF	SS16LF	SS18LF	SS110LF	UNITS	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V	
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	1.0							A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30.0							A	
Maximum instantaneous forward voltage at 1.0A	V _F	0.45			0.5		0.7		V	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5					0.2		mA	
		10.0					5.0			
Typical junction capacitance (NOTE 1)	C _J	110			90					pF
Typical thermal resistance (NOTE 2)	R _{θJA}	88.0							°C/W	
Operating junction temperature range	T _J	-55 to +125					-55 to +150		°C	
Storage temperature range	T _{STG}	-55 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 SS12LF THRU SS110LF

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES



PEAK FORWARD SURGE CURRENT,
AMPERES

