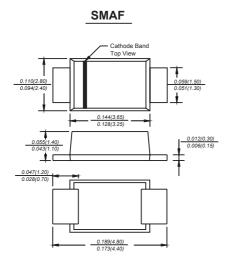
SS12 THRU SS120



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere



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: JEDEC 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	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS115	SS120	UNITS
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	VOLTS
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	VOLTS
Maximum average forward rectified current at TL(see fig.1)	I(AV)	1.0									Amp
Peak forward surge current											
8.3ms single half sine-wave superimposed on	Ігѕм	30.0									Amps
rated load (JEDEC Method)											
Maximum instantaneous forward voltage at 1.0A	VF	0.45	0.55 0.7		70		0.85		0.95	Volts	
Maximum DC reverse current T _A =25℃	0.5								2	mA	
at rated DC blocking voltage Ta=100℃	l _R	10.0				5.0		2.0			
Typical junction capacitance (NOTE 1)	Сл	110				90				pF	
Typical thermal resistance (NOTE 2)	Reja	95									°C/W
Operating junction temperature range	TJ,		-55 to +125 -55 to +150							°C	
Storage temperature range	Тѕтс	-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 SS12 THRU SS 120

