

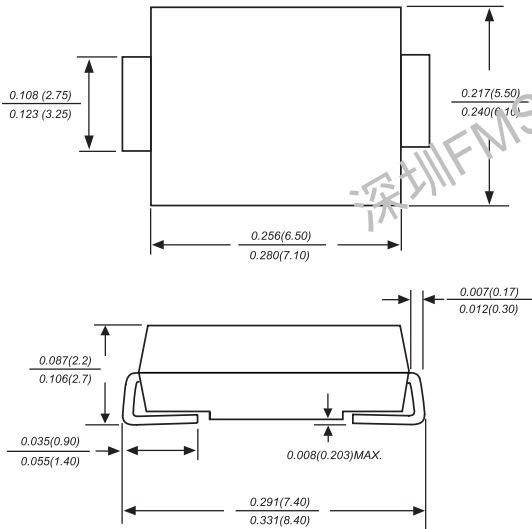
# SCHOTTKY BARRIER RECTIFIER

## SS1020 THRU SS10A0

Reverse Voltage - 20 to 100 Volts Forward Current - 10.0 Amperes

# Formosa MS

### SMC/DO-214AB



Dimensions in inches and (millimeters)

### FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C, 0.25" (6.35mm) from case for 10 seconds

### MECHANICAL DATA

**Case:** JEDEC DO-214AB molded plastic body

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

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

**Weight:** 0.008 ounce, 0.217 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	SS 1020	SS 1030	SS 1040	SS 1045	SS 1050	SS 1060	SS 1070	SS 1080	SS 1090	SS 10A0	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	$V_{RMS}$	14	21	28	32	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	$V_{DC}$	20	30	40	45	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current (see fig. 1)	$I_{(AV)}$	10.0										Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	250.0										Amps
Maximum instantaneous forward voltage at 10A	$V_F$	0.55			0.70			0.85			Volts	
Maximum DC reverse current at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$	$I_R$	1.0					0.1					mA
Typical junction capacitance (NOTE 1)	$C_J$	550										pF
Typical thermal resistance (NOTE 2)	$R_{qjc}$	2.0										°C/W
Operating junction temperature range	$T_J$	-65 to +150					-65 to +150					°C
Storage temperature range	$T_{STG}$	-65 to +150										°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.6x0.6" (16x16mm) copper pad areas



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## RATINGS AND CHARACTERISTIC CURVES SS1020 THRU SS10A0

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