

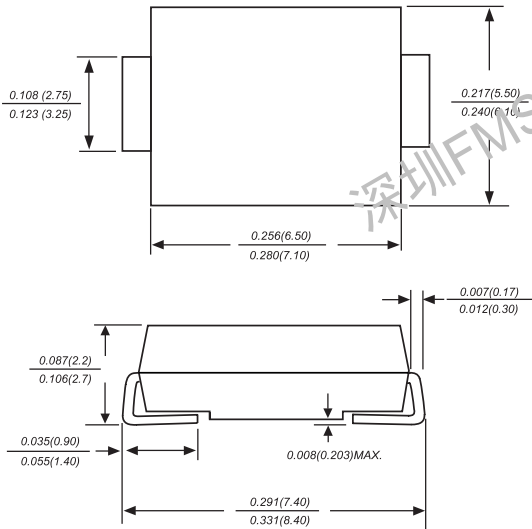
SCHOTTKY BARRIER RECTIFIER

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 $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=100^\circ\text{C}$	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



<http://www.formosams.com/>
 TEL: 886-2-22696661
 FAX: 886-2-22696141

Document ID	Issued Date	Revised Date	Revision	Page.
DS-222645	2008/02/10	2010/03/10	B	2

SCHOTTKY BARRIER RECTIFIER

RATINGS AND CHARACTERISTIC CURVES SS1020 THRU SS10A0

Formosa MS

