

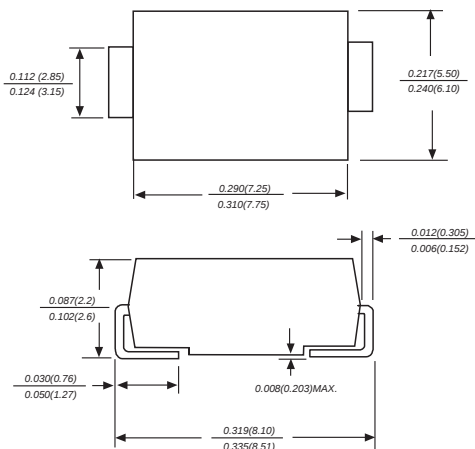
SS1020 THRU SS10100

SCHOTTKY BARRIER RECTIFIER

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

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	SK 10100	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}	150.0										Amps
Maximum instantaneous forward voltage at 5.0A	V _F	0.65				0.75		0.85				Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	1.0										mA
		15.0				50.0						
Typical junction capacitance (NOTE 1)	C _J	550				450				pF		
Typical thermal resistance (NOTE 2)	R _{qJC}	2.0										°C/W
Operating junction temperature range	T _J	-65 to +125				-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 SS10100

