

II. Schottky Rectifier

5.0A Surface Mount Schottky Rectifier

SS52~SS520

(Package: SMC (DO-214AB))

<p>FEATURES</p> <ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Metal silicon junction, majority carrier conduction Built-in strain relief Low forward voltage drop Low power loss, high efficiency High forward surge current capability High temperature soldering guaranteed <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : Molded plastic Polarity : Color band denotes cathode Weight : 0.220 grams 	<p>Case: SMC Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Ratings at 25° ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	SS 52	SS 53	SS 54	SS 55	SS 56	SS 58	SS 510	SS 515	SS 520	Units						
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	Volts						
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	Volts						
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts						
Maximum average forward rectified current at T _L (see Fig. 1)	I _O	5.0									Amps						
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100									Amps						
Maximum instantaneous forward voltage at 5.0A DC	V _F	0.55		0.70		0.85		0.95		Volts							
Maximum DC reverse current T _j = 25°C at rated DC blocking voltage T _j = 100°C	I _R	0.2		1.0		50				mA							
		20															
Typical junction capacitance (Note 1)	C _j	500		350		PF											
Typical thermal resistance (Note 2)	R _{th-JA}	15		10		°C/W											
Operating junction temperature range	T _j	-55 to +150									°C						
Storage temperature range	T _{stg}	-55 to +150									°C						

Notes:

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts D.C.

2. Thermal resistance junction to ambient.

Ratings and Characteristic Curves of SS52~SS520

