

II. Schottky Rectifier

2.0A Surface Mount Schottky Rectifier

S22~S220

(Package: SMA (DO-214AC))

<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 Low power loss, high efficiency High forward surge current capability High temperature soldering guaranteed : 250 /10 seconds at terminals <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : JEDEC DO-214AC molded plastic body Terminals : Solder plated, solderable per MIL-STD-750, method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.093 grams 	<p>Case: SMA Dimensions in inches and (millimetres)</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	S22	S23	S24	S25	S26	S28	S210	S215	S220	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	2.0								Amps			
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50								Amps			
Maximum instantaneous forward voltage at 2.0A DC	V _F	0.55		0.70		0.85		0.95		Volts			
Maximum DC reverse current Ta = 25°C at rated DC blocking voltage Ta = 100°C	I _R	0.5				1.0				mA			
Typical junction capacitance (Note 1)	C _j	220		180		PF							
Typical thermal resistance (Note 2)	R _{th-JA}	75						45		°C/W			
Operating junction temperature range	T _j	-65 to +125			-65 to +150			-55 to +150		°C			
Storage temperature range	T _{tsg}	-55 to +150								°C			

Notes:

- Measured at 1 MHz and applied reverse voltage of 4.0 volts D.C.
- P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas.

Ratings and Characteristic Curves of S22~S220

