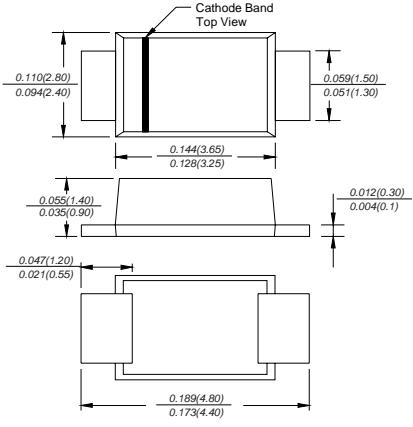


II. Schottky Rectifier

2.0A Surface Mount Schottky Rectifier S22AF~S220AF

(Package: SMAF)

<p>FEATURES</p> <ul style="list-style-type: none"> The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 For surface mounted applications Metal silicon junction, majority carrier conduction Low power loss, high efficiency Built-in strain relief, ideal for automated placement High forward surge current capability High temperature soldering guaranteed : 260 °C /10 seconds at terminals <p>MECHANICAL DATA</p> <ul style="list-style-type: none"> Case : SMAF molded plastic body Terminals : Leads solderable per MIL-STD-750, Method 2026 Polarity : Color band denotes cathode end Mounting Position : Any Weight : 0.038 grams 	 <p>Cathode Band Top View</p> <p>Dimensions in inches and (millimetres)</p>
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Ratings & 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%.

Characteristics	Symbol	S22AF	S23AF	S24AF	S25AF	S26AF	S28AF	S210AF	S215AF	S220AF	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	150	Volts		
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	Volts		
Maximum average forward 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}	50.0								Amps			
Maximum instantaneous forward voltage at 5.0A	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				0.1				mA			
		10.0				5.0		2.0					
Typical junction capacitance (Note 1)	C _j	220.0			180.0								
Typical thermal resistance (Note 2)	R _{th-JA}	95.0								/W			
Operating junction temperature range	T _j	-55 to +125				-55 to +150							
Storage temperature range	T _{stg}	-55 to +150											

Notes:

- Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

F.E.C. Semiconductor

Ratings and Characteristic Curves of S22AF~S220AF

