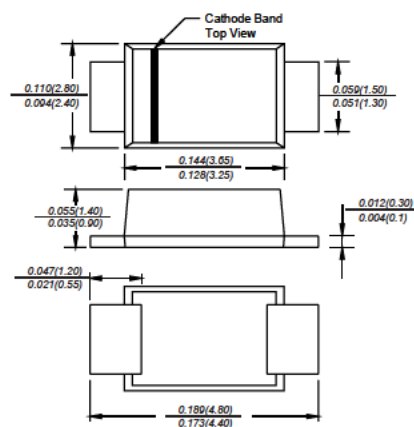


II. Schottky Rectifier

3.0A Surface Mount Schottky Rectifier S32AF~S320AF

(Package: SMAF)

<p><u>FEATURES</u></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><u>MECHANICAL DATA</u></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>Case: SMAF 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	S32AF	S33AF	S34AF	S35AF	S36AF	S38AF	S310AF	S315AF	S320AF	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	I_o	3.0									Amps	
Non-repetitive peak forward surge current 8.3ms single half sine-wave	I_{FSM}	100.0									Amps	
Maximum forward voltage at 3.0A	V_F	0.55			0.70		0.85		0.95		Volts	
Maximum reverse current at V_{DC} $T_a = 25^\circ C$ $T_a = 100^\circ C$	I_R	0.5					20.0					mA
Typical thermal resistance (Note 1)	R_{th-JA} R_{th-JL}	55.0					17.0					°C/w
Typical junction capacitance $V_R = 4.0V, F = 1MHz$	C_j	160.0									PF	
Operating junction temperature range	T_j	-55 to +125					-55 to +150					°C
Storage temperature range	T_{stg}	-55 to +150									°C	

Notes:

1. Thermal resistance from junction to ambient, PCB mounted.

<http://patron-components.com/>

Ratings and Characteristic Curves of S32AF~S320AF

