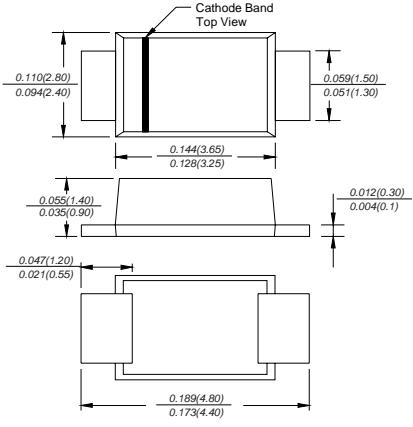


II. Schottky Rectifier

3.0A Surface Mount Schottky Rectifier S32AF~S320AF

(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	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 Ta = 25 °C Ta = 100 °C	I _R	0.5 20.0									mA						
Typical thermal resistance (Note 1)	R _{th-JA} R _{th-JL}	55.0 17.0									/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											
Storage temperature range	T _{stg}	-55 to +150															

Notes:

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

Ratings and Characteristic Curves of S32AF~S320AF

