S2AF THRU S2MF



2.0 AMP SURFACE MOUNT SILICON RECTIFIERS

FEATURES

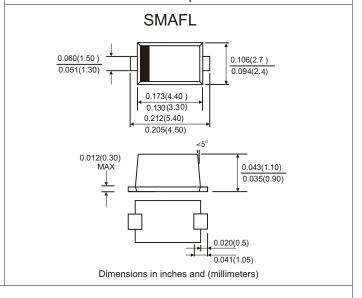
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any * Weight: 0.064 grams
- *Lead Free Finish/RoHS Compliant

VOLTAGE RANGE 50 to 1000 Volts CURRENT

2.0 Ampere



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	S2AF	S2BF	S2DF	S2GF	S2JF	S2KF	S2MF	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
				2.0				Α
Peak Forward Surge Current, 8.3 ms single half sine	-wave							
superimposed on rated load (JEDEC method)		70						
Maximum Instantaneous Forward Voltage at 2.0A		1.1						
Maximum DC Reverse Current Ta=25°C		5.0			uA			
at Rated DC Blocking Voltage Ta=100	°C	50				uA		
Typical Junction Capacitance (Note 1)		20						
Typical Thermal Resistance R JA (Note 2)		50						
Operating and Storage Temperature Range Tj, TSTG		-65—+150						

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance from Junction to Ambient.

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RATING AND CHARACTERISTIC CURVES (S2AF THRU S2MF)

FIG.1-TYPICAL FORWARD

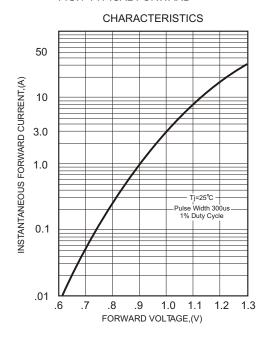


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

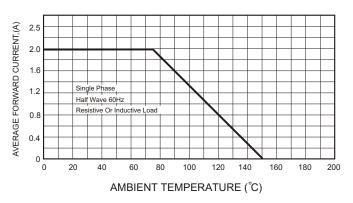


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

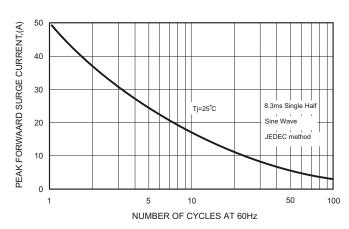


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

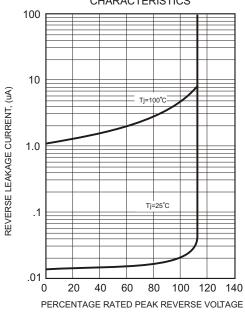
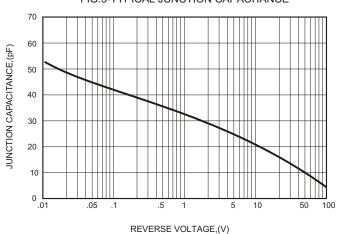


FIG.5-TYPICAL JUNCTION CAPACITANCE



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