

S3ABF THRU S3MBF 3.0 AMP SURFACE MOUNT SILICON RECTIFIERS

FEATURES

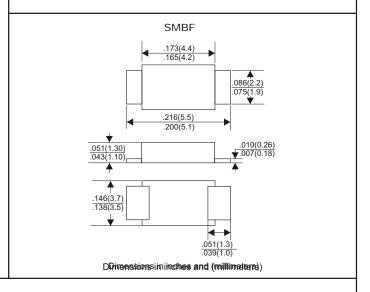
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 50 to 1000 Volts CURRENT

3.0 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	S3ABF	S3BBF	S3DBF	S3GBF	S3JBF	S3KBF	S3MBF	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								
At T∟=75°C		3.0						
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		100						Α
Maximum Instantaneous Forward Voltage at 3.0A		1.10					V	
Maximum DC Reverse Current Ta=25°C		5.0						μА
at Rated DC Blocking Voltage Ta=125°C		250						
Typical Junction Capacitance (Note1)		60						pF
Typical Thermal Resistance R JL (Note 2)		13						°C/W
Operating and Storage Temperature Range Тл, Тsтс		-65 — +150						

NOTES

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

RATING AND CHARACTERISTIC CURVES (S3ABF THRU S3MBF)

FIG.1-TYPICAL FORWARD

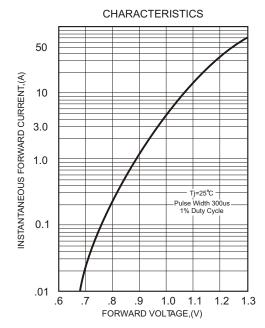


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

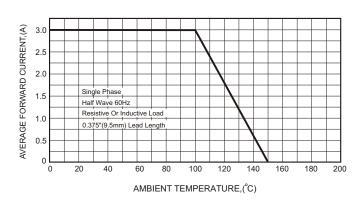


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

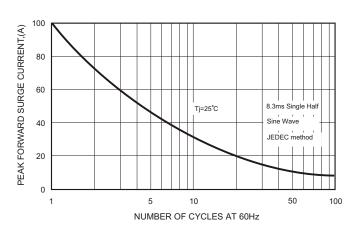


FIG.3 - TYPICAL REVERSE

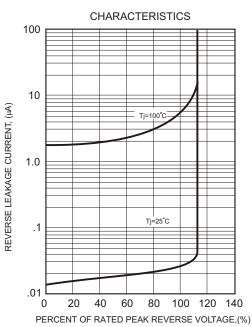
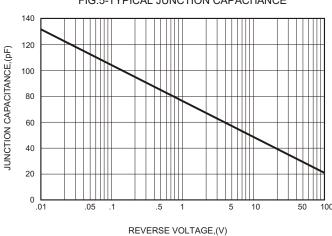


FIG.5-TYPICAL JUNCTION CAPACITANCE



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