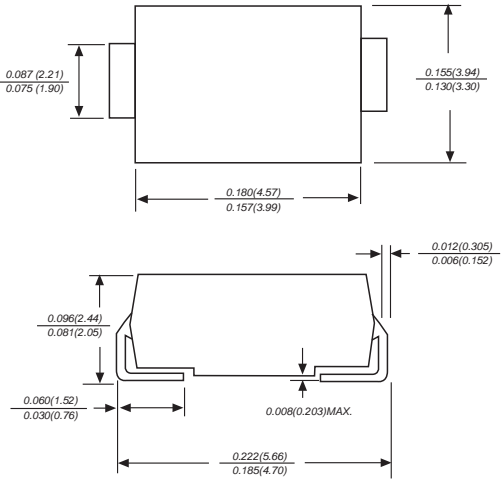


I. General Purpose Rectifier

**3.0A Surface Mount Silicon Rectifier
S3AB~S3MB**

(Package: SMB (DO-214AA))

<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 • Low reverse leakage • Built-in strain relief, ideal for automated placement • High forward surge current capability • High temperature soldering guaranteed : 250 /10 seconds at terminals <p><u>MECHANICAL DATA</u></p> <ul style="list-style-type: none"> • Case : JEDEC DO-214AA molded plastic body • Terminals : Solder plated, solderable per MIL-STD-750, Method 2026 • Polarity : Color band denotes cathode end • Mounting Position : Any • Weight : 0.090 grams 	 <p style="text-align: center;">Case: SMB Dimensions in inches and (millimeters)</p>
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Ratings & Electrical Characteristics

Ratings at 25 ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_L = 75$	I_O	3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100.0							Amps
Maximum instantaneous forward voltage at 3.0 A	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_a = 25$ $T_a = 100$	I_R	10.0 250.0							μA
Typical junction capacitance (Note 1)	C_j	60.0							pF
Typical thermal resistance (Note 2)	Rth-JA	50.0							/ W
Operating junction and storage temperature range	T_j, T_{stg}	-65 to +175							

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

Ratings and Characteristic Curves of S3AB~S3MB

