

# S3AB THRU S3MB

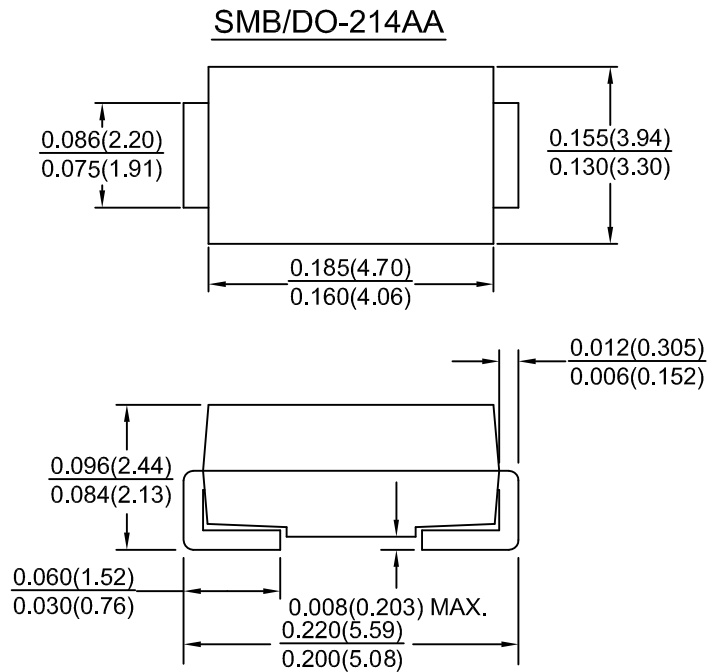
## SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

### FEATURES:

- For surface mounted applications
- Low profile package
- Built-in stain relief
- Easy pick and place
- Flammability Classification
- High temperature soldering:  
250°C /10 second at terminals

### MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic  
 Terminals: Solder plated solderable per MIL-STD-750, Method 2026  
 Polarity: Indicated by cathode band  
 Weight: 0.003 ounces, 0.093 grams



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	S3AB	S3BB	S3DB	S3GB	S3JB	S3KB	S3MB	Units
	Marking	S3A	S3B	S3D	S3G	S3J	S3K	S3M	
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T <sub>L</sub> = 75 °C	I <sub>(AV)</sub>	3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100							Amps
Maximum instantaneous forward voltage drop per leg at 3.0A	V <sub>F</sub>	1.2							Volts
Maximum DC reverse current at rated DC blocking voltage T <sub>a</sub> = 25 °C T <sub>a</sub> = 125 °C	I <sub>R</sub>	5.0 250.0							μ A
Typical junction Capacitance (NOTE 1)	C <sub>J</sub>	60.0							PF
Typical thermal resistance (NOTE 2)	R <sub>th JL</sub>	13							°C/W
	R <sub>th JA</sub>	47							
Operating Junction and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150							°C

NOTE :

1. Measured at 1 MHz and applied reverse voltage of 4.0 volts
2. Thermal resistance junction to case per leg mounted on heatsink

# RATINGS AND CHARACTERISTIC CURVES S3AB THRU S3MB

