

S3AB THRU S3MB

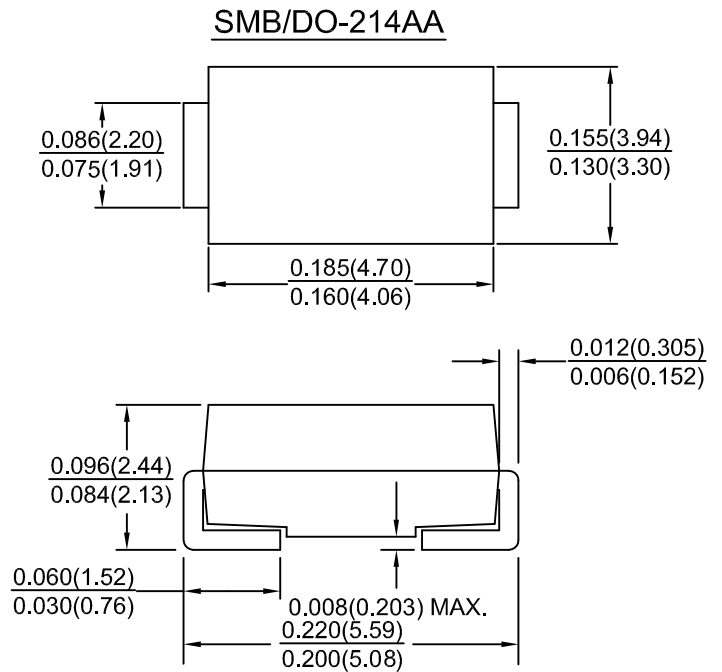
SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

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 _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at T _L = 75 °C	I _(AV)	3.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100							Amps
Maximum instantaneous forward voltage drop per leg at 3.0A	V _F	1.2							Volts
Maximum DC reverse current at rated DC blocking voltage T _a = 25 °C T _a = 125 °C	I _R	5.0 250.0							μ A
Typical junction Capacitance (NOTE 1)	C _J	60.0							PF
Typical thermal resistance (NOTE 2)	R _{th} JL	13							°C/W
	R _{th} JA	47							
Operating Junction and storage temperature range	T _J , T _{stg}	-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

