

# S1A THRU S1M 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

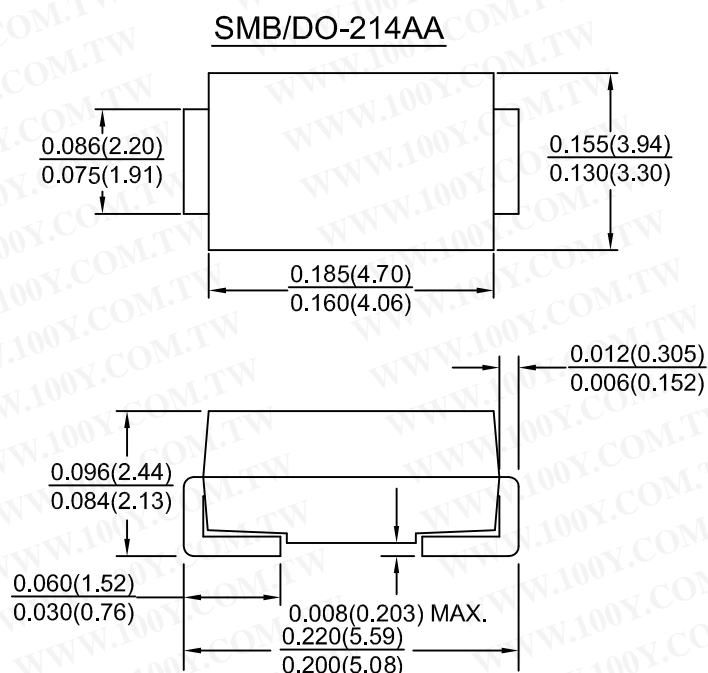
## MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic

Terminals: Solder plated solderable per  
MIL-STD-750, Method 2026

Polarity: Indicated by cathode band  
Standard Packaging: Any

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	S1A	S1B	S1D	S1G	S1J	S1K	S1M	Units
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 $T_L = 100^\circ\text{C}$	$I_o$	1.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30							Amps
Maximum instantaneous forward voltage drop per leg at 1.0A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	$I_R$	5.0 100							$\mu\text{A}$
Operating Junction and storage temperature range	$T_J, T_{stg}$	-55 to +150							$^\circ\text{C}$

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# RATING AND CHARACTERISTIC CURVES S1A THRU S1M

FIG.1 - MAXIMUM FORWARD CURRENT DERATING CURVE

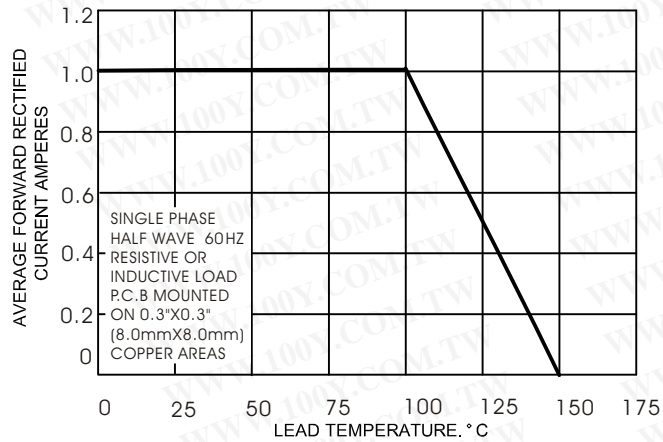


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

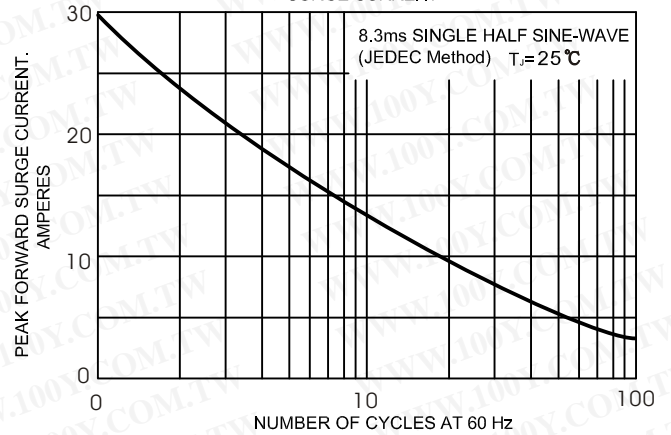


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

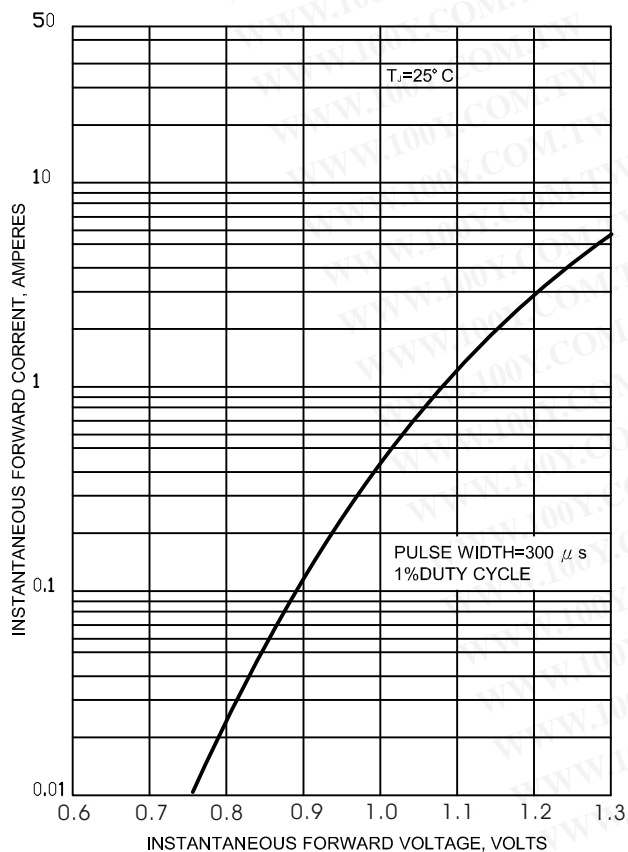
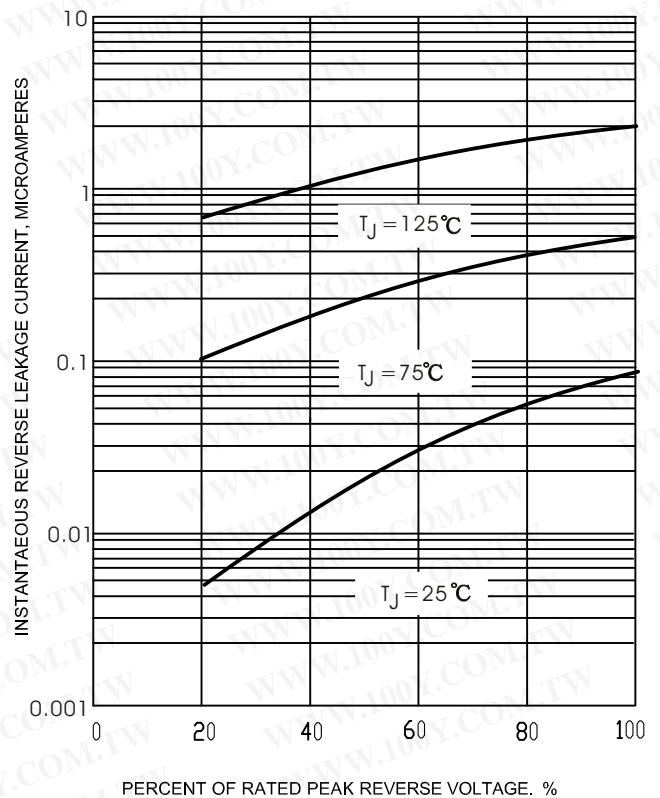


FIG.4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



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