

# S2A THRU S2M

## SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

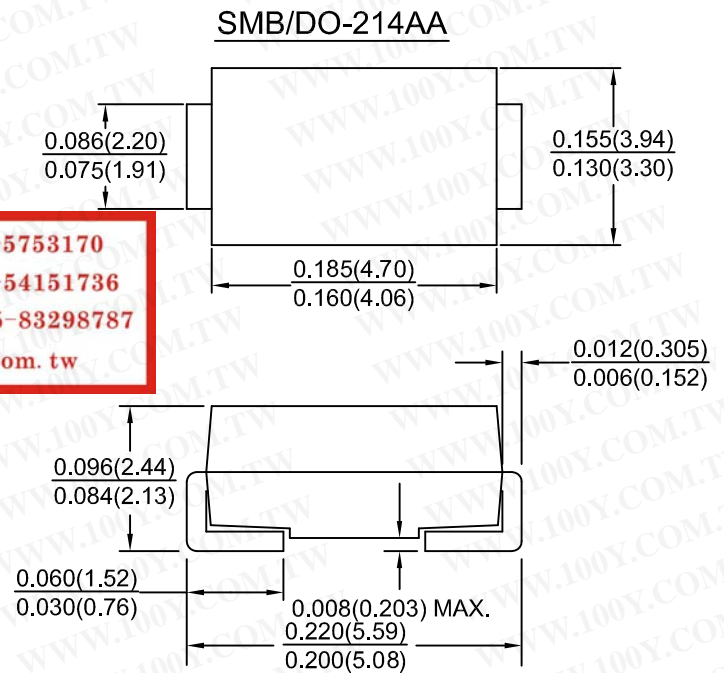
### FEATURES:

- 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

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

### 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	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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 $T_L = 100^\circ\text{C}$	$I_o$	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							Amps
Maximum instantaneous forward voltage drop per leg at 2.0A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_a = 25^\circ\text{C}$ $T_a = 125^\circ\text{C}$	$I_R$	5.0 125							$\mu\text{A}$
Typical Junction Capacitance (NOTE 2)	$C_J$	30							PF
Maximum reverse recovery time (NOTE 1)	$T_{RR}$	2.5							$\mu\text{s}$
Typical thermal resistance (NOTE 3)	$R_{th\text{ JL}}$	16							$^\circ\text{C/W}$
Operating Junction and storage temperature range	$T_J, T_{stg}$	-55 to +150							$^\circ\text{C}$

NOTE :

1. Reverse recovery test conditions:  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

3. Thermal resistance from junction to lead mounted on 0.2 x 0.2" (5.0mm x 5.0mm)

# RATING AND CHARACTERISTIC CURVES S2A THRU S2M

