

# S3A THRU S3M

## SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

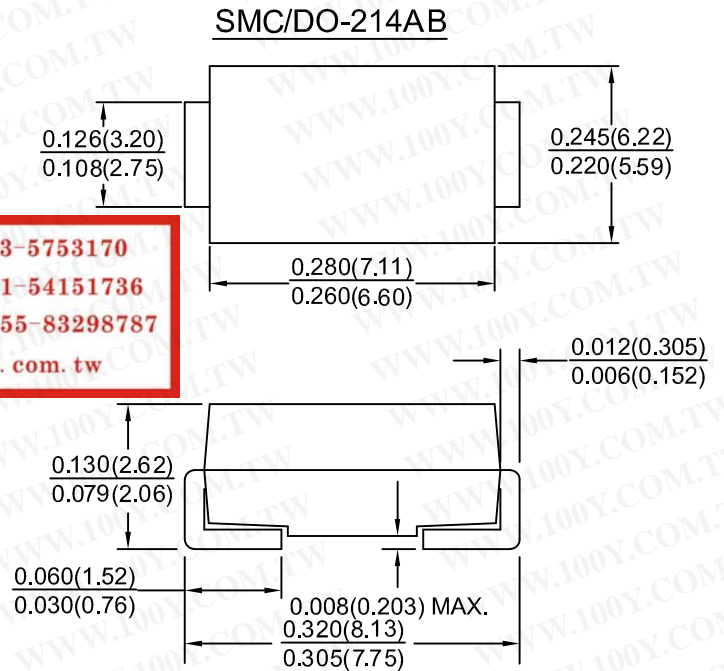
### FEATURES:

- 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-214AB molded plastic  
 Terminals: Solder plated solderable per MIL-STD-750, Method 2026  
 Polarity: Indicated by cathode band  
 Standard Packaging: 16mm tape (EIA STD EIA-481)  
 Weight: 0.007 ounces, 0.21 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	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Units
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=""></sub(av)<>	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 2)	C <sub>J</sub>	60.0							PF
Maximum reverse recovery time (NOTE 1)	T <sub>RR</sub>	2.5							μs
Typical thermal resistance (NOTE 3)	R <sub>th JL</sub> R <sub>th JA</sub>	13 47							° C/W
Operating Junction and storage temperature range	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150							° C

NOTE :

1. Reverse recovery test conditions: I<sub>F</sub> = 0.5A, I<sub>R</sub> = 1.0A, I<sub>RR</sub> = 0.25A
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts
3. Thermal resistance junction to case per leg mounted on heatsink

# RATINGS AND CHARACTERISTIC CURVES S3ATHRU S3M

