

# SHANGHAI SUNRISE ELECTRONICS CO., LTD.

## S3A THRU S3M

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

TECHNICAL SPECIFICATION

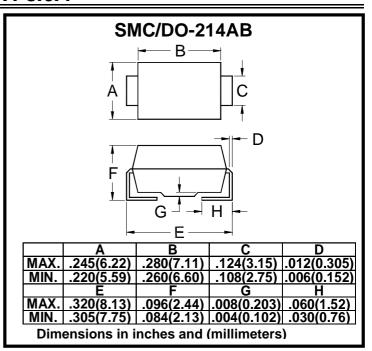
VOLTAGE: 50 TO 1000V CURRENT: 3.0A

#### **FEATURES**

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

#### **MECHANICAL DATA**

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	S3A	S3B	S3D	S3G	S3J	S3K	S3M	UNITS
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		3.0							А
(T <sub>L</sub> =75°C)	I <sub>F(AV)</sub>								
Peak Forward Surge Current (8.3ms single		100							Α
half sine-wave superimposed on rated load)	I <sub>FSM</sub>								A
Maximum Instantaneous Forward Voltage	$V_{F}$	1.1							V
(at rated forward current)	٧F								
Maximum DC Reverse Current T <sub>a</sub> =25°C	; I_	10.0							μΑ
(at rated DC blocking voltage) T <sub>a</sub> =125°C	I <sub>R</sub>	250							μΑ
Typical Junction Capacitance (Note 1)	$C_J$	40							pF
Typical Thermal Resistance (Note 2)	$R_{\theta}(ja)$	25							°C/W
Storage and Operation Junction Temperature	$T_{STG}, T_{J}$	-65 to +150							°C
Note:									

- 1.Measured at 1.0 MHz and applied voltage of  $4.0V_{\rm dc}$
- 2. Thermal resistance from junction to terminal mounted on 5×5mm copper pad area