

SHANGHAI SUNRISE ELECTRONICS CO., LTD.

S2A THRU S2M

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 2.0A

FEATURES

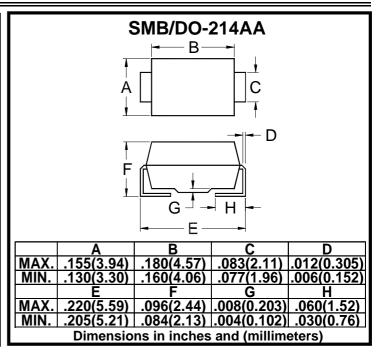
- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

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	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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		2.0							Α
(T _L =110°C)	I _{F(AV)}								
Peak Forward Surge Current (8.3ms single		60							۸
half sine-wave superimposed on rated load)	I _{FSM}								Α
Maximum Instantaneous Forward Voltage	V_{F}	1.1							V
(at rated forward current)	٧F								
Maximum DC Reverse Current $T_a=25$	5°C ,	5.0							μΑ
(at rated DC blocking voltage) T _a =125	o°C I _R	200							μΑ
Typical Junction Capacitance (Note	e 1) C _J	C _J 30						pF	
Typical Thermal Resistance (Note	e 2) R _θ (ja)	16						°C/W	
Storage and Operation Junction Temperature	T_{STG}, T_{J}	T _{STG} ,T _J -65 to +150					°C		
Note:									

Note:

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