# S2A THRU S2M

### 2.0 AMP SURFACE MOUNT SILICON RECTIFIERS

# **VOLTAGE RANGE** 50 to 1000 Volts **CURRENT**

2.0 Ampere

# **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

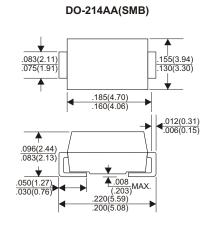
### **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Metallurgically bonded construction
- \* Mounting position: Any

\* Epoxy: UL 94V-0 rate flame retardant

\* Polarity: Color band denotes cathode end

\* Weight: 0.093 grams



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current								
At TL=110°C	2.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave								
superimposed on rated load (JEDEC method)		60						Α
Maximum Instantaneous Forward Voltage at 2.0A		1.10						V
Maximum DC Reverse Current Ta=25°C	5.0							Α
at Rated DC Blocking Voltage Ta=125°C		200						
Typical Junction Capacitance (Note1)		30						
Typical Thermal Resistance R JL (Note 2)		16						°C/W
Operating and Storage Temperature Range T <sub>J</sub> , Ts <sub>TG</sub>		-65—+150						

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.

#### RATING AND CHARACTERISTIC CURVES (S2A THRU S2M)

FORWARD VOLTAGE,(V)

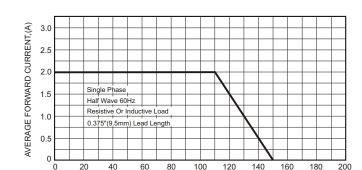


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE



LEAD TEMPERATURE,(°C)

