S2AA THRU S2MA



2.0 AMP SURFACE MOUNT SILICON RECTIFIERS



FEATURES

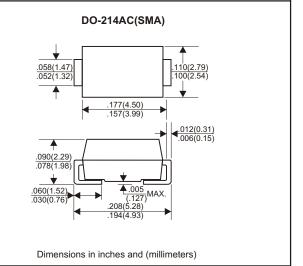
- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any

VOLTAGE RANGE 50 to 1000 Volts CURRENT

2.0 Amperes



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	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	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 T _L =100°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		1.1						V
Maximum DC Reverse Current Ta=25°C	5.0						μА	
at Rated DC Blocking Voltage Ta=125℃		200						
Typical Junction Capacitance (Note1)		30						pF
Typical Thermal Resistance RθJL (Note 2)		20						°C/W
Operating and Storage Temperature Range TJ, TsTG		-65 — +150						

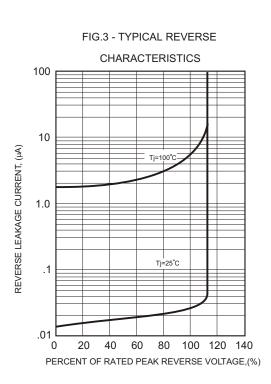
NOTES

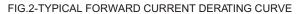
- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (S2AA THRU S2MA)

FIG.1-TYPICAL FORWARD **CHARACTERISTICS** 50 INSTANTANEOUS FORWARD CURRENT, (A) 10 3.0 1.0 Tj=25℃ Pulse Width 300us 1% Duty Cycle 0.1 .01 .6 1.0 1.2 1.3 FORWARD VOLTAGE,(V)







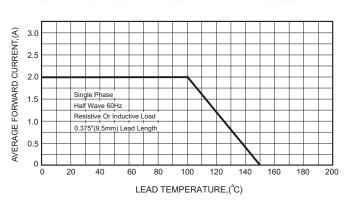


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

