

# S2A~S2M 2.0Amp Surface Mount General Purpose Rectifiers

#### **Features**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals

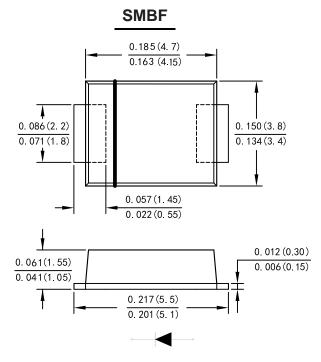
#### **Mechanical Data**

Case: JEDEC DO-214AA molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any



Dimensions in inches and (millimeters)

### **Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	Vpc	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=100℃	l(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	İfsm	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=125°C	lR	5.0 100							μА
Typical junction capacitance (NOTE 1)	Cı	10.0							pF
Typical thermal resistance (NOTE 2)	RθJA	65.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



## Ratings And Characteristic Curves

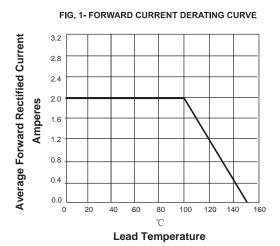


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

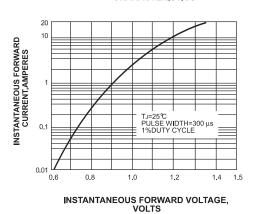


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

