# **S2AA THRU S2MA**

## **Surface Mount General Rectifiers**

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

### **Features**

- The plastic package carries UL flammability classification 94V-0
- · High forward surge current capability
- · Low reverse leakage

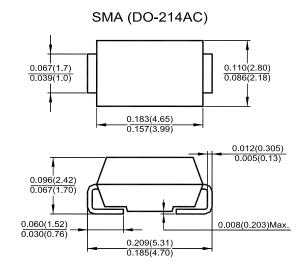
#### **Mechanical Data**

Case: SMA (DO-214AC) 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 Characteristics**

 $Ratings\ at\ 25^{\circ}C\ ambient\ temperature\ unless\ otherwise\ specified.\ Single\ phase,\ half\ wave,\ 60\ Hz,\ resistive\ or\ inductive\ load.$ 

For capacitive load, derate current by 20%.

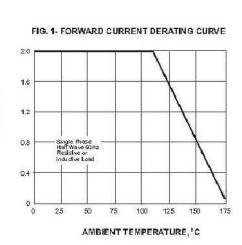
Tor capacitive load, derate current by 2070.			1					1	1
Parameter	Symbols	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T <sub>L</sub> = 110 °C	I <sub>F(AV)</sub>	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							А
Maximum Forward Voltage at I <sub>F</sub> = 2 A	V <sub>F</sub>	1.1						V	
Maximum DC Reverse Current at $T_a = 25$ °C at Rated DC Blocking Voltage at $T_a = 100$ °C	I <sub>R</sub>	5 50							μA
Typical Junction Capacitance 1)	CJ	30							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	50						°C/W	
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	- 55 to + 150							°C

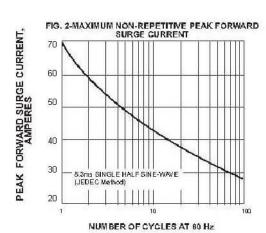
<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V.

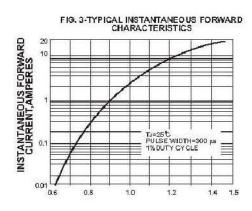


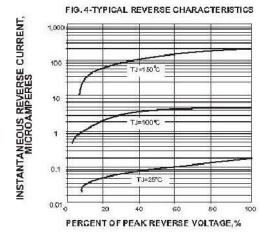
 $<sup>^{\</sup>rm 2)}\,P.C.B$  mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas











INSTANTANEOUS FORWARD VOLTAGE, VOLTS

