S2AD THRU S2MD

Surface Mount General Rectifiers Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

Features

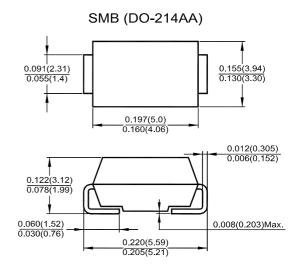
- The plastic package carries UL flammability classification 94V-0
- · High forward surge current capability
- · Low reverse current

Mechanical Data

Case: SMB (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 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 %.

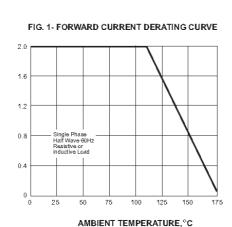
Tor supusitive load, derate surrent by 20 70.									
Parameter	Symbols	S2AD	S2BD	S2DD	S2GD	S2JD	S2KD	S2MD	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T _L = 110 °C	I _{F(AV)}	2							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	60							А
Maximum Forward Voltage at I _F = 2 A	V _F	1.1						V	
Maximum DC Reverse Current at T_a = 25 °C at Rated DC Blocking Voltage at T_a = 100 °C	I _R	5 50							μA
Typical Junction Capacitance 1)	C_j	30						pF	
Typical Thermal Resistance 2)	$R_{\theta JA}$	50						°C/W	
Operating and Storage Temperature Range	T _j , T _{stg}	- 65 to + 175							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V.



 $^{^{2)}\,\}text{P.C.B}$ mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas





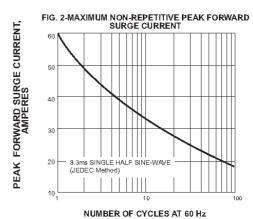


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

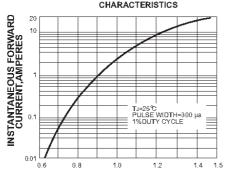
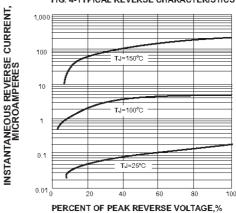
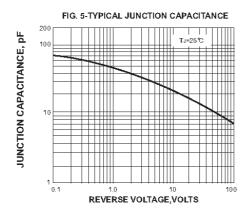
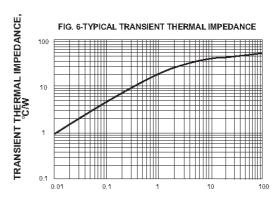


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t,PULSE DURATION,sec.





