S3AD THRU S3MD

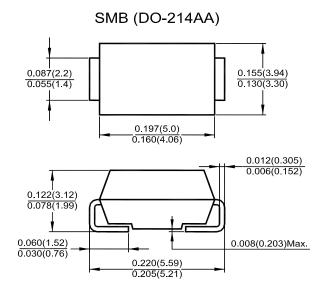
Surface Mount General Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 3 A

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

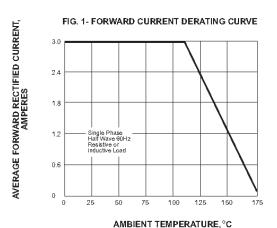
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20 %.

Parameter	Symbols	S3AD	S3BD	S3DD	S3GD	S3JD	S3KD	S3MD	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 $^{\circ}$ C	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100							А
Maximum Forward Voltage at I_F = 3 A	V _F	1.1						V	
Maximum DC Reverse Currentat $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltageat $T_a = 100 \ ^{\circ}C$	I _R	5 100							μA
Typical Junction Capacitance ¹⁾	Cj	60							pF
Typical Thermal Resistance ²⁾	$R_{ extsf{ heta}JA}$	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.

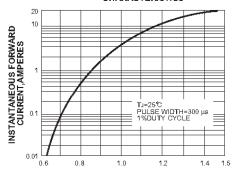
 $^{2)}\mbox{P.C.B}$ mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas



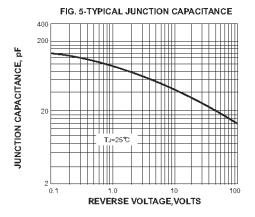












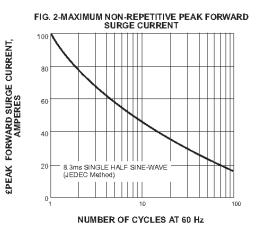
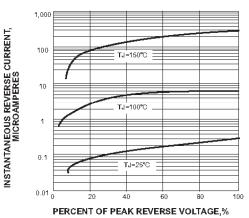
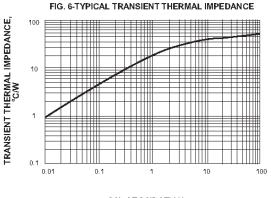


FIG. 4-TYPICAL REVERSE CHARACTERISTICS





t,PULSE DURATION,sec.

