SURFACE MOUNT GENERAL RECTIFIERS

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

Features

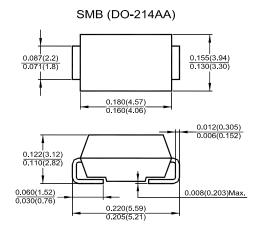
- The plastic package carries UL flammability classification 94V-0
- · High forward surge current capability
- · Low reverse current

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

1 of capacitive load, derate carrent by 2070.									
Parameter	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	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							Α
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)	CJ	30							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	50							°C/W

 $T_{J,}T_{stg}$

Operating and Storage Temperature Range



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- 65 to + 175





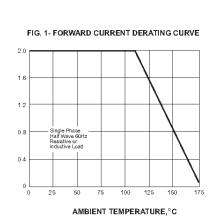


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¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

²⁾ P.C.B mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



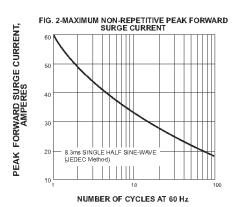
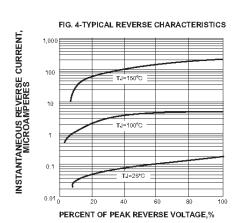
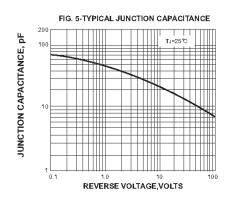


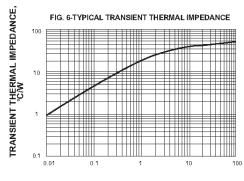
FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS INSTANTANEOUS FORWARD CURRENT, AMPERES J=25 C ULSE WIDTH=300 μs %DUTY CYCLE 1.4

INSTANTANEOUS FORWARD VOLTAGE, VOLTS









t, PULSE DURATION, sec.











