SURFACE MOUNT GENERAL RECTIFIERS

Reverse Voltage - 50 to 1000 V

Forward Current - 2 A

Features

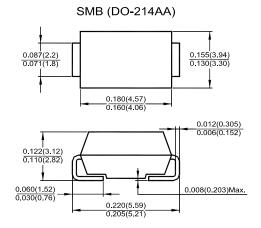
- The plastic package carries UL flammability classification 94V-0
- · High forward surge current capability
- · Low reverse current

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.

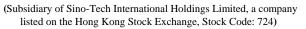
For capacitive load, derate current by 20%.

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							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)	CJ	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.



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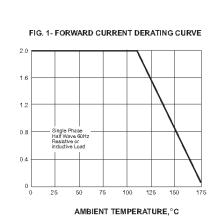


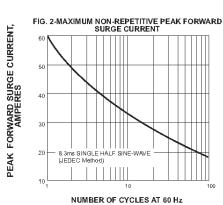




 $^{^{2)}\}mbox{P.C.B}$ mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES





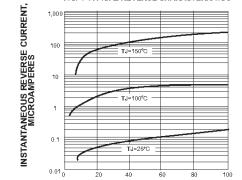
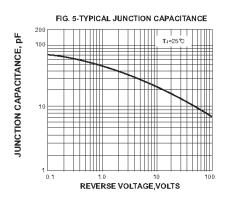
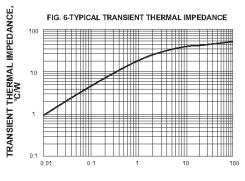


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

INSTANTANEOUS FORWARD VOLTAGE, VOLTS





PERCENT OF PEAK REVERSE VOLTAGE.%

t,PULSE DURATION,sec.

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