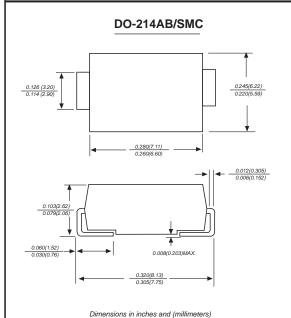


S6A THRU S6M

SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 6.0 Amperes



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.007 ounce, 0.25grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

MDD Catalog Number	SYMBOLS	S6A	S6B	S6D	S6G	S6J	S6K	S6M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=75°C	l(AV)	6.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	200.0							Amps
Maximum instantaneous forward voltage at 6.0A	VF	1.2							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	10.0 100.0						μΑ	
Typical junction capacitance (NOTE 1)	Сл	60.0						pF	
Typical thermal resistance (NOTE 2)	Reja	10.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

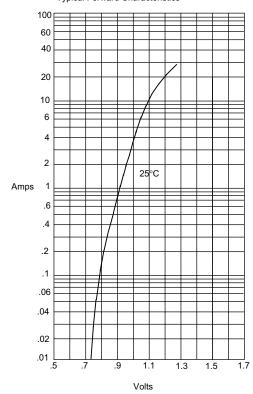
*Pulse test: Pulse width 200 usec, Duty cycle 2%

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES S6A THRU S6M

Figure 1 Typical Forward Characteristics



Forward Derating Curve

12

10

8

Amps

6

4

Single Phase, Half Wave

60||ı̃z |

Figure 2

°C
Average Forward Rectified Current - Amperes *versus*Case Temperature - °C

100

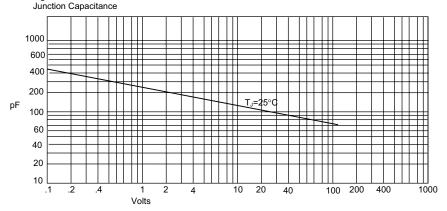
120

140

160

Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

Figure 3

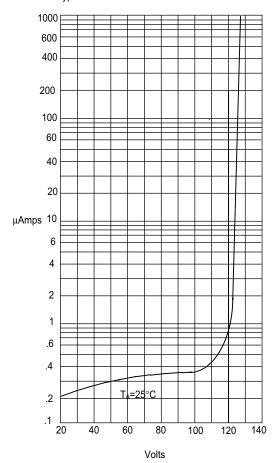


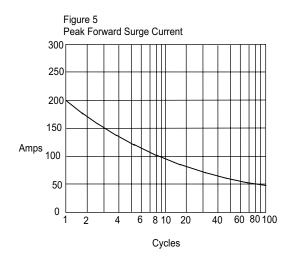
Junction Capacitance - pF *versus* Reverse Voltage - Volts

MDD ELECTRONIC

RATINGS AND CHARACTERISTIC CURVES S6A THRU S6M

Figure 4
Typical Reverse Characteristics





Peak Forward Surge Current - Amperes *versus* Number Of Cycles At 60Hz - Cycles

Instantaneous Reverse Leakage Current - MicroAmperes *versus* Percent Of Rated Peak Reverse Voltage - Volts

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