I. General Purpose Rectifier

6.0A Surface Mount Silicon Rectifier S6A~S6M

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 /10 seconds at terminals

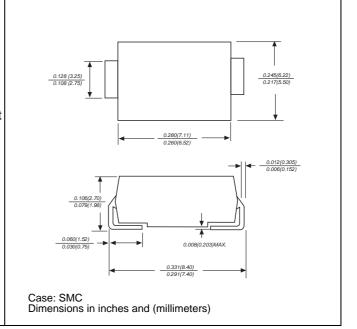
MECHANICAL DATA

• 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 : AnyWeight : 0.220 grams



(Package: SMC (DO-214AB))

Ratings & Electrical Characteristics

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

Characteristic	Symbol	S6A	S6B	S6D	S6G	S6J	S6K	S6M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_L = 75$	Io	6.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150.0							Amps
Maximum instantaneous forward voltage at 6.0 A	V _F	1.25							Volts
Maximum DC reverse current Ta = 25 at rated DC blocking voltage Ta = 100	I _R	10.0 250.0							μΑ
Typical junction capacitance (Note 1)	Cj	150.0							РF
Typical thermal resistance (Note 2)	Rth-JA	50.0						/ W	
Operating junction and storage temperature range	Tj, Tstg	-65 to +175							

Notes

- 1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
- 2. P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

Ratings and Characteristic Curves of S6A~S6M

