I. General Purpose Rectifier

4.0A Surface Mount Silicon Rectifier S4A~S4M

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

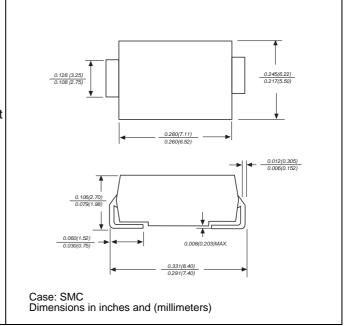
MECHANICAL DATA

• 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

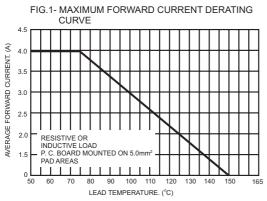
Ratings at 25 ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

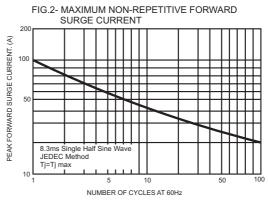
Characteristic	Symbol	S4A	S4B	S4D	S4G	S4J	S4K	S4M	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_L = 75$	Io	4.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100.0							Amps
Maximum instantaneous forward voltage at 4.0 A	V _F	1.15							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	60.0							РF
Typical thermal resistance (Note 2)	Rth-JA	50.0						/ W	
Operating junction and storage temperature range	Tj, Tstg	-65 to +175							

Notes

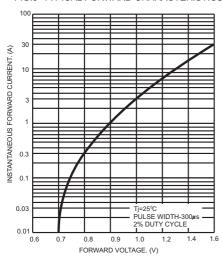
- 1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
- 2. P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

Ratings and Characteristic Curves of S4A~S4M











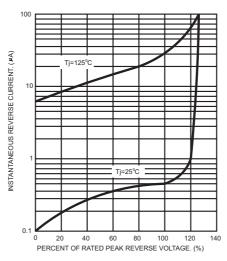


FIG.5- TYPICAL JUNCTION CAPACITANCE

