

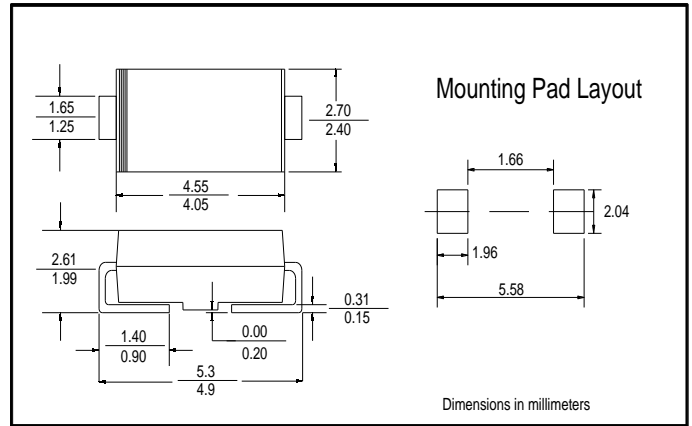
REVERSE VOLTAGE 50V~1000V

FORWARD CURRENT 1.0AMP Surface Mount Rectifiers

FEATURES

- * For surface mounted application
- * Metal to silicon rectifier, majority carrier conduction
- * Low forward voltage drop
- * Easy pick and place
- * High surge current capability
- * Plastic material used carriers Underwr Laboratory Classification 94V-0
- * Epitaxial construction
- * High temperature soldering:
260" /10 seconds at terminals
- * Glass Passivated Chip Junction

DO-214AC (SMA)



MECHANICAL DATA

- * Case: molded plastic
- * Terminals: Solder plated
- * Polarity: Indicated by cathode band
- * Packaging: 12mm tape EIA STD RS- 481
- * Weight: 0.064gram

Maximum Ratings And Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 Rectified Current @ T _L =110°C	I _{F(AV)}	1.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage (Note @ 1.0 A)	V _F	1.1							V
Maximum DC Reverse Current @ T _A =25°C At Rated DC Blocking Voltage @ T _A =125°C	I _R	5.0 50							uA
Typical Thermal Resistance (Note)	R _{θJL} R _{θJA}	25 55							°C/W
Operating Junction Temperature Range	T _J	- 55to+150							°C
Storage Temperature Range	T _{STG}	- 55to+150							°C

NOTE: Measured on P.C. Board with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas.



Ratings and Characteristic Curves (Ta = 25°C unless otherwise noted)

