

## S6A THRU S6M

## 6.0 AMPS. Surface Mount Rectifiers



Voltage Range 50 to 1000 Volts Current 6.0Amperes

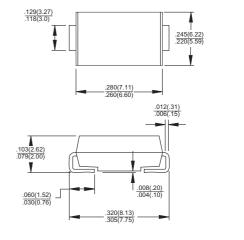
#### **Features**

- ♦ For surface mounted application
- ♦ Glass passivated junction chip.
- ♦ Low forward voltage drop
- ♦ High current capability
- ♦ Easy pick and place
- ♦ High surge current capability
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- High temperature soldering:
- ♦ 260°C / 10 seconds at terminals

### **Mechanical Data**

- ♦ Case: Molded plastic
- ♦ Terminals: Solder plated
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.21 gram

# SMC / DO-214AB



#### Dimensions in inches and (millimeters)

## **Maximum Ratings and Electrical Characteristics**

Rating 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%

roi capacitive load, derate current by 20 %									
Type Number	Symbol	S6A	S6B	S6D	S6G	S6J	S6K	S6M	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	<b>V</b>
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	<b>V</b>
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375 (9.5mm) Lead Length $@T_L = 75^{\circ}C$	I <sub>(AV)</sub>	6.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	250							Α
Maximum Instantaneous Forward Voltage @ 6.0A	V <sub>F</sub>	1.15							٧
Maximum DC Reverse Current @ T <sub>A</sub> =25°C		10							uA
at Rated DC Blocking Voltage @ T <sub>A</sub> =100℃	I <sub>R</sub>	400							uA
Typical Junction Capacitance (Note 1)	Cj	100							рF
Typical Thermal Resistance ( Note 2 )	$R\theta_{JA}$	10							<b>C</b> /W
Operating Temperature Range	TJ	-65 to +125							Ç
Storage Temperature Range	T <sub>STG</sub>	-65 to +150							Ç

Notes: 1. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.

2. Measured on P.C. Board with 0.6 x 0.6" (16 x 16mm) Copper Pad Areas.



