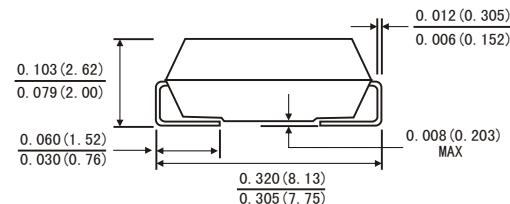
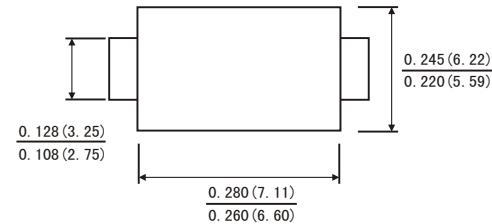


## FEATURES

Super fast switching time for high efficiency  
Low forward voltage drop and  
high current capability  
Low reverse leakage current  
Plastic material has UL flammability  
classification 94V-0



SMC-DO-214AB



## MECHANICAL DATA

Case: Molded Plastic  
Polarity: Color band denotes cathode  
Weight: 0.007 ounces, 0.21 grams  
Mounting position: Any

Dimensions in inches and (millimeters)

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Ta = 65 °C	I <sub>F(AV)</sub>	3							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	100							A
Maximum Instantaneous Forward Voltage at 3 A	V <sub>F</sub>	1.2							V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	I <sub>R</sub>	5 250							µA
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>	53							pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>	13 47							°C/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>stg</sub>	-55 ~ +150							°C

1 ) Measured at 1 MHz and applied reverse voltage of 4 V D.C

2 ) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted



星合电子  
XINGHE ELECTRONICS

S3A THRU S3M

Surface Mount General Purpose Silicon Rectifiers  
Reverse Voltage - 50 to 1000 V  
Forward Current - 3 A

Fig.1 Forward Current Derating Curve

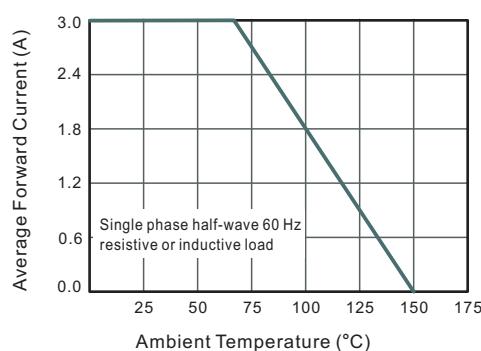


Fig.2 Typical Instantaneous Reverse Characteristics

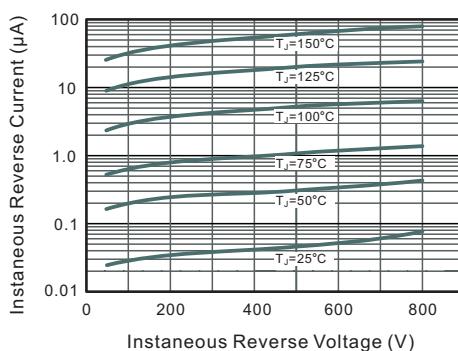


Fig.3 Typical Forward Characteristic

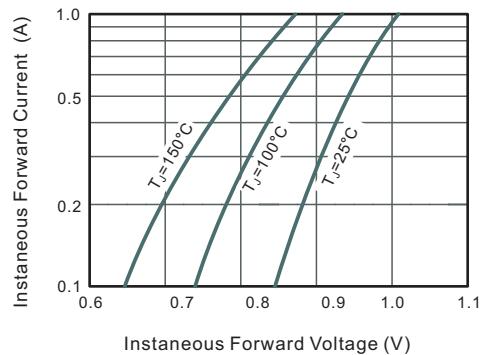


Fig.4 Typical Junction Capacitance

