Amber Electronic Limited

S1A THRU S1M SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

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°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body

Terminals: Solder plated, solderable per MIL-STD-750,

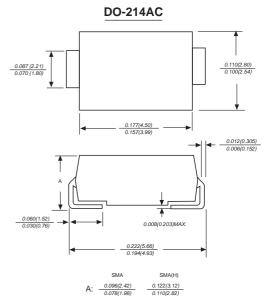
Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.003 ounce, 0.093 grams

0.004 ounce, 0.111 grams SMA(H)



Dimensions in inches and (millimeters)

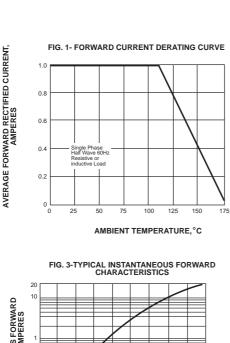
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

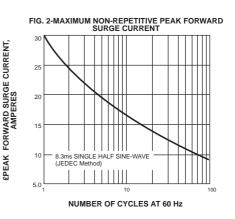
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

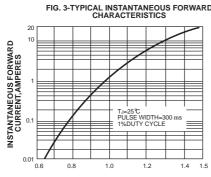
SYMBOLS	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
VRRM	50	100	200	400	600	800	1000	VOLTS
VRMS	35	70	140	280	420	560	700	VOLTS
VDC	50	100	200	400	600	800	1000	VOLTS
l(AV)	1.0							Amp
İFSM	30.0							Amps
VF	1.1							Volts
lR	5.0 50.0						mA	
Cı	15.0						pF	
RqJA	75.0						°C/W	
Тл,Тѕтс	-65 to +175						°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RqJA	VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR CJ RqJA	VRRM 50 100 VRMS 35 70 VDC 50 100 I(AV) IFSM VF IR CJ RqJA	VRRM 50 100 200 VRMS 35 70 140 VDC 50 100 200 I(AV) IFSM VF IR CJ RqJA	VRRM 50 100 200 400 VRMS 35 70 140 280 VDC 50 100 200 400 I(AV) 1.0 IFSM 30.0 VF 1.1 IR 50.0 CJ RqJA 75.0	VRRM 50 100 200 400 600 VRMS 35 70 140 280 420 VDC 50 100 200 400 600 I(AV) 1.0 IFSM 30.0 VF 1.1 IR 5.0 CJ 15.0 RqJA 75.0	VRRM 50 100 200 400 600 800 VRMS 35 70 140 280 420 560 VDC 50 100 200 400 600 800 I(AV) 1.0 IFSM 30.0 VF 1.1 IR 50.0 CJ RqJA 75.0	VRRM 50 100 200 400 600 800 1000 VRMS 35 70 140 280 420 560 700 VDC 50 100 200 400 600 800 1000 I(AV) 1.0 IFSM 30.0 VF 1.1 IR 5.0 CJ 15.0 RqJA 75.0

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES S1A THRU S1M







INSTANTANEOUS FORWARD VOLEAGE,

