# Suntan<sub>®</sub> Su<sub>®</sub>

# **RS5A THRU RS5M**

## SSURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 5.0 Ampere

## FEATURES

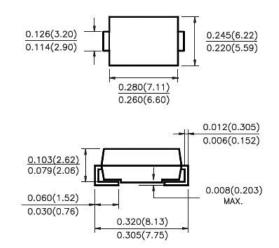
- ◆ Plastic package has underwrites laboratory flammability
- Classification 94V-0 For surface mounted applications
- ◆Low profile package
- ◆ Built-in strain relief, ideal for automated placement
- ♦ Glass passivated chip junction
- ♦ High temperature soldering guaranteed:

 $250^{\circ}C/10$  second at terminals

### Mechanical Data

- ◆Case: JEDED DO-214AA molded plastic over glass passivated chip
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- ♦ Polarity: Color band denotes cathode end
- ♦ Weight: 0.007ounce, 0.25 gram

## DO-214AB (SMC)



### **Dimensions in inches and (millimeters)**

## 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%

		SYMBOLS	RS5A	RS5B	RS5D	RS5G	RS5J	RS5K	RS5M	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current		F(AV)	5.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	150							Amps
Typical Thermal Resistance (Note 1)		Reja	47							°C/W
		Rej∟	13							
Operating junction and Storage Temperature Range		T <sub>J</sub> ,Тsтg	-55 to +150							°C
ELECTRICAL CHARACTERISTIC	S		1							
TYPE NUMBER		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 5.0A		VF	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	<b>T</b> <sub>A</sub> = 25℃			5.0						
	T <sub>A</sub> =125℃	IR	50							uA
Typical Reverse Recovery Time at $I_F$ =0.5A, $I_R$ =1.0A, $I_{RR}$ =0.25A		t <sub>rr</sub>	150 250 500					ns		

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with  $0.3 \times 0.3^{"}$  (8.0  $\times$  8.0mm) copper pad areas.

# Suntan<sub>®</sub>Su<sub>®</sub>

100

TJ=125°C

T\_=25°C

80

100

100

60

1 11

10

(5X

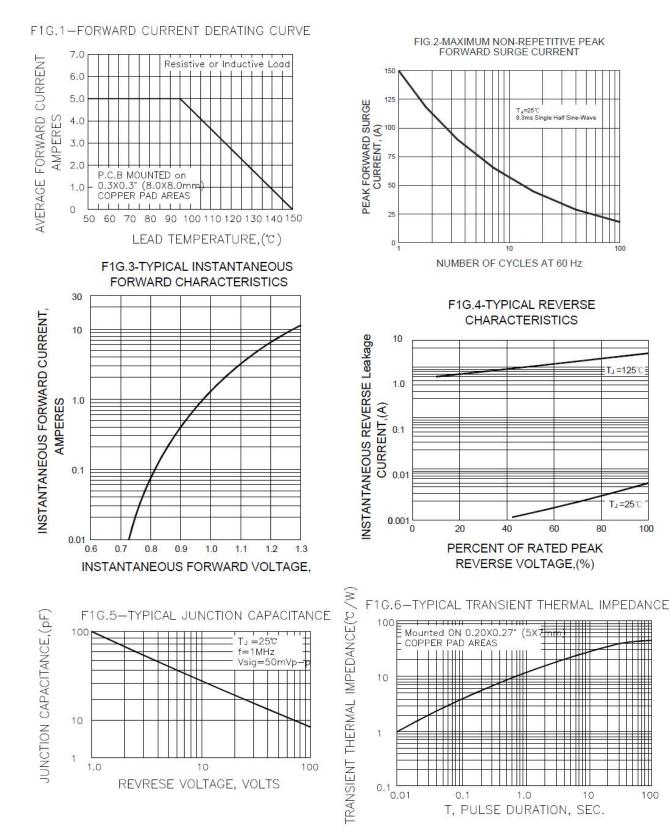
1.0

T<sub>A</sub>=25°C 8.3ms Single

## **RS5A THRU RS5M**

#### SURFACE MOUNT SUPER FAST RECTIFIER Forward Current - 5.0 Ampere Reverse Voltage - 50 to 1000 Volts

## **RATING AND CHARACTERISTIC CURVES RS5A THRU RS5M**



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.