







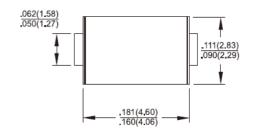
#### **Features**

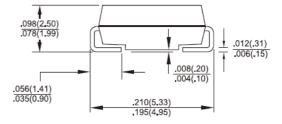
- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- ♦ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- → Fast switching for high efficiency
- → High temperature soldering:
  260°C / 10 seconds at terminals
- Green compound with suffix "G" on packing code & prefix "G" on datecode

### **Mechanical Data**

- ♦ Case: Molded plastic
- ♦ Terminals: Pure tin plated, Lead free
- ♦ Polarity: Indicated by cathode band
- ♦ Packing: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.064 grams

# 1.5 AMP. Surface Mount Fast Recovery Rectifiers **SMA/DO-214AC**





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

#### **Marking Diagram**



RS2X = Specific Device Code G = Green Compound

= Work Month

Y = Year

## **Maximum Ratings and Electrical Characteristics**

Rating at 25  $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

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Type Number	Symbol	RS 2AA	RS 2BA	RS 2DA	RS 2GA	RS 2JA	RS 2KA	RS 2MA	Unit
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 @ $T_L$ =100 $^{\circ}$ C	I <sub>F(AV)</sub>				1.5				Α
Peak Forward Surge Current, 8.3 ms Single Half Sinewave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							Α
Maximum Instantaneous Forward Voltage (Note 1) @ 1.5 A	V <sub>F</sub>	1.3							V
Maximum Reverse Current @ Rated VR $T_A$ =25 $^{\circ}$ C $T_A$ =125 $^{\circ}$ C	I <sub>R</sub>	5 200							uA
Maximum Reverse Recovery Time (Note 2)	Trr	150			250	500		nS	
Typical Junction Capacitance (Note 3)	Cj	50						pF	
Typical Thermal Resistance	$R_{\theta jA} \ R_{\theta jL}$	55 18						°C/W	
Operating Temperature Range	TJ	- 55 to + 150							οС
Storage Temperature Range	T <sub>STG</sub>	- 55 to + 150							°С

Note 1: Pulse Test with PW=300 usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =1.0A,  $I_{RR}$ =0.25A

Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

Version:D10



#### RATINGS AND CHARACTERISTIC CURVES (RS2AA THRU RS2MA)

