





## **Features**

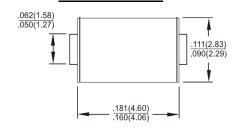
- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- ♦ Fast switching for high efficiency
- → High temperature soldering:
   260°C / 10 seconds at terminals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

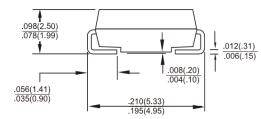
## **Mechanical Data**

- ♦ 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

# 1.0 AMP. Surface Mount Fast Recovery Rectifiers

## SMA/DO-214AC





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

## **Marking Diagram**

RS1X SGYM RS1X = Specific Device Code G = Green Compound

Y = Year
M = Work Month

## **Maximum Ratings and Electrical Characteristics**

For capacitive load, derate current by 20%

Symbol	RS 1A	RS 1B	RS 1D	RS 1G	RS 1J	RS 1K	RS 1M	Unit
$V_{RRM}$	50	100	200	400	600	800	1000	V
$V_{RMS}$	35	70	140	280	420	560	700	V
$V_{DC}$	50	100	200	400	600	800	1000	V
I <sub>F(AV)</sub>	1							Α
I <sub>FSM</sub>	30						Α	
V <sub>F</sub>	1.3						V	
I <sub>R</sub>	5 50							uA
Trr	150		250	50	00	nS		
Cj	10						pF	
$R_{ heta j A} \ R_{ heta j C}$	105 32						°C/W	
TJ	- 55 to + 150						οС	
T <sub>STG</sub>	- 55 to + 150						°С	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ \\ I_{F(AV)} \\ \\ I_{FSM} \\ \\ V_{F} \\ \\ I_{R} \\ \\ Trr \\ Cj \\ R_{\theta j A} \\ R_{\theta j C} \\ \\ T_{J} \\ \end{array}$	V <sub>RRM</sub> 50 V <sub>RMS</sub> 35 V <sub>DC</sub> 50  I <sub>F(AV)</sub> I <sub>FSM</sub> V <sub>F</sub> I <sub>R</sub> Trr  Cj  R <sub>θjA</sub> R <sub>θjC</sub> T <sub>J</sub>	Name	Symbol   1A	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

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.



## RATINGS AND CHARACTERISTIC CURVES (RS1A THRU RS1M)

