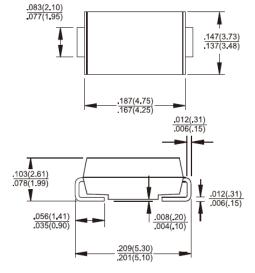


RS2A - RS2M 2.0 AMP. Surface Mount Fast Recovery Rectifiers

SMB/DO-214AA

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: 0.093 grams

Dimensions in inches and (millimeters)

RS2X SEGYM

Marking Diagram

RS2X = Specific Device Code G = Green Compound Y = Year M = Work Month

Maximum Ratings and Electrical Characteristics

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

For capacitive load, derate current by 20%

Symbol	RS 2A	RS 2B	RS 2D	RS 2G	RS 2J	RS 2K	RS 2M	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 _{F(AV)}	2						А	
I _{FSM}	50						А	
V _F	1.3						V	
I _R	5 50						uA	
Trr	150 2			250	500		nS	
Cj	50						pF	
R _{θjA} R _{θjL}	55 18						°C/W	
TJ	- 55 to + 150						°C	
T _{STG}	- 55 to + 150						°C	
	$\begin{tabular}{ c c c c } \hline V_{RRM} & V_{RMS} & V_{DC} \\ \hline V_{P} & I_{F(AV)} \\ \hline I_{FSM} & V_{F} \\ \hline V_{F} & I_{R} \\ \hline V_{F} & I_{R} \\ \hline Trr & Cj \\ \hline R_{\theta j A} \\ R_{\theta j L} \\ \hline T_{J} \\ \hline \end{tabular}$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{tabular}{ c c c c c c } \hline Symbol & 2A & 2B & 2D \\ \hline V_{RRM} & 50 & 100 & 200 \\ \hline V_{RMS} & 35 & 70 & 140 \\ \hline V_{DC} & 50 & 100 & 200 \\ \hline $I_{F(AV)}$ \\ \hline I_{FSM} \\ \hline V_{F} \\ \hline $V_{$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c } \hline Symbol & 2A & 2B & 2D & 2G & 2J \\ \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline I_{F(AV)} & & & & & & & & \\ \hline I_{FSM} & & & & & & & & & \\ \hline V_F & & & & & & & & & & & \\ \hline V_F & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c c c c } \hline Symbol & 2A & 2B & 2D & 2G & 2J & 2K \\ \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 & 560 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 \\ \hline I_{F(AV)} & & & & & & & & \\ \hline I_{FSM} & & & & & & & & & & \\ \hline V_F & & & & & & & & & & & & \\ \hline V_F & & & & & & & & & & & & & \\ \hline I_R & & & & & & & & & & & & & \\ \hline & & & & &$	$\begin{array}{c c c c c c c c c c c } \hline Symbol & 2A & 2B & 2D & 2G & 2J & 2K & 2M \\ \hline V_{RRM} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline V_{RMS} & 35 & 70 & 140 & 280 & 420 & 560 & 700 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline V_{DC} & 50 & 100 & 200 & 400 & 600 & 800 & 1000 \\ \hline I_{F(AV)} & & & & & & & & & \\ \hline I_{FSM} & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & \\ \hline I_{R} & & & & & & & & & & & & & & \\ \hline & & & &$

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

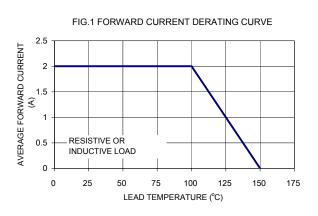
Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A

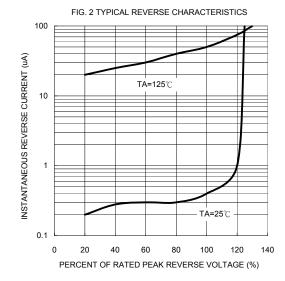
Note 3: Measured at 1 MHz and Applied Reverse Voltage of 4.0V D.C.

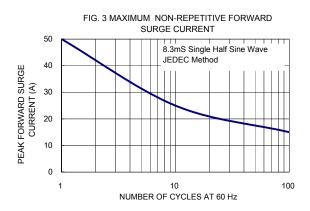
Version:D11



RATINGS AND CHARACTERISTIC CURVES (RS2A THRU RS2M)









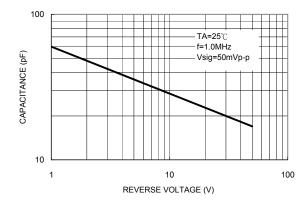


FIG. 5 TYPICAL FORWARD CHARACTERISRICS

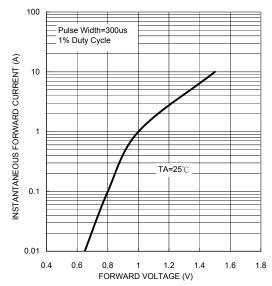


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

