

RS2A THRU RS2M

2.0 AMPS. Fast Recovery Surface Mount Rectifiers



Voltage Range 50 to1000 Volts Current 2.0 Amperes

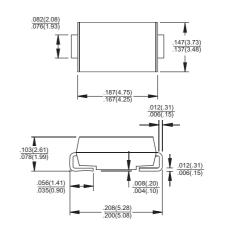
Features

- ♦ For surface mounted application
- ♦ Glass passivated junction chip
- Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-O
- ♦ Fast switching for high efficiency
- High temperature soldering:
 260°C/10 seconds at terminals

Mechanical Data

- ♦ Cases: Molded plastic♦ Terminals: Solder plated
- ♦ Polarity: Indicated by cathode band
- ♦ Packing: 12mm tape per E1A STD RS-481
- ♦ Weight: 0.093 gram

SMB/DO-214AA



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°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	RS	RS	RS	RS	RS	RS	Units
	2A	2B	2D	2G	2J	2K	2M	
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 _(AV)	2.0						Α	
I _{FSM}	50						Α	
V_{F}	1.3						٧	
I_	5							uA
^{IR} 200							uA	
Trr	150 250 500					nS		
Cj	50						pF	
$R\theta_{JA}$	55.0							C/W
$R heta_{JL}$	18.0							C/W
TJ	-55 to +150							C
Tstg	-55 to +150						C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ V_{DC} \\ I_{(AV)} \\ \\ I_{FSM} \\ V_{F} \\ I_{R} \\ Trr \\ Cj \\ R\theta_{JA} \\ R\theta_{JL} \\ T_{J} \\ \end{array}$	2A V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _(AV) I _{FSM} V _F I _R Trr Cj R θ _{JA} R θ _{JL} T _J	ZA 2B V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _(AV) I _{FSM} V _F I _R Trr 15 Cj R θ _{JA} R θ _{JL} T _J	2A 2B 2D V_{RRM} 50 100 200 V_{RMS} 35 70 140 V_{DC} 50 100 200 I_{(AV)} I_{FSM} V_F Trr	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

- Notes: 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A
 - 2. Measured at 1 MHz and Applied V_R=4.0 Volts
 - 3. Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B . with 0.4" $\times 0.4$ " ($10 \times 10 \text{ mm}$) Copper Pad Areas.



