# **RS2A THRU RS2M**



### RS2A THRU RS2M

### 1.0Amp Fast Recovery Surface Mounted Rectifiers

#### **General description**

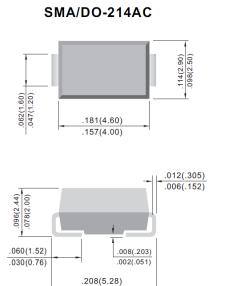
2.0Amp Fast Recovery Surface Mounted Rectifiers

#### FEATURES

- For surface mounted applications
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated Junction chip
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed
- 260 C/10 seconds at terminals

#### **MECHANICAL DATA**

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbol marking on body
- Mounting Position: Any



Unit: inch (mm)

.188(4.80)

#### Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

Parameter	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Marking Code	Mark	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	N/A
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T∟=100°C	l(AV)	2.0							А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Ігѕм	50							A
Maximum instantaneous forward voltage at 1.0A	Vf	1.3							V
Maximum DC reverse current T ₄=25℃ at rated DC blocking voltage T₄=125℃	lĸ	5.0 200							uA
Max reverse recovery time (Note 1)	Trr	150 250 500					ns		
Typical junction capacitance (Note2)	CJ	15							pF
Typical thermal resistance	Rqja	55.0							°C/M
Operating junction and storage temperature range	Тј,Тѕтс	-55 to +150							°C

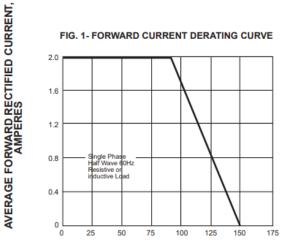
NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1 MHz and applied Vr = 4.0 volts.

## **RS2A THRU RS2M**



### **Ratings And Characteristic Curves**



AMBIENT TEMPERATURE, °C

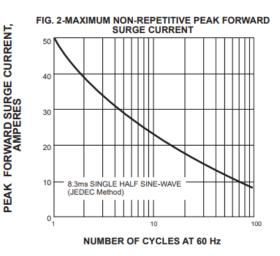
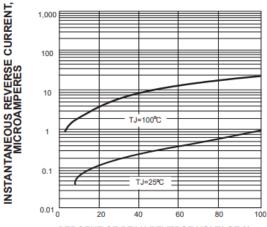
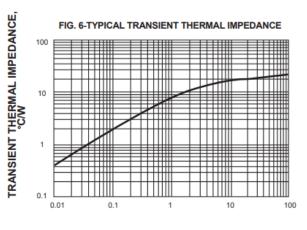


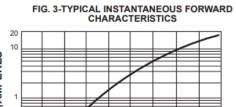
FIG. 4-TYPICAL REVERSE CHARACTERISTICS

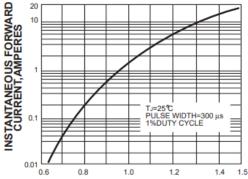






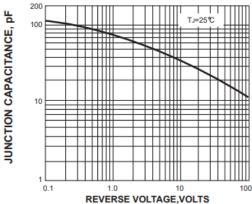
t, PULSE DURATION, sec.





INSTANTANEOUS FORWARD VOLTAGE, VOLTS





## **RS2A THRU RS2M**



## **Important Notice and Disclaimer**

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.