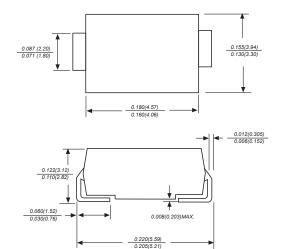


# **RS2A THRU RS2M**

## SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Amperes

### **DO-214AA**



Dimensions in inches and (millimeters)

## **FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
  High temperature soldering guaranteed: 250°C/10 seconds at terminals

### **MECHANICAL DATA**

Case: JEDEC DO-214AA molded plastic body

**Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load for capacitive load current derate by 20%.

	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at TL=90℃	l(AV)				2.0		-		Amps
Peak forward surge current									
8.3ms single half sine-wave superimposed on	IFSM	sм 50.0							Amps
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 2.0A	VF	1.3							Volts
Maximum DC reverse current T <sub>A</sub> =25℃	Ι.	5.0						μА	
at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	50.0							
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns
Typical junction capacitance (NOTE 2)	Cı	50.0						pF	
Typical thermal resistance (NOTE 3)	RθJA	20.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-65 to +150							°C

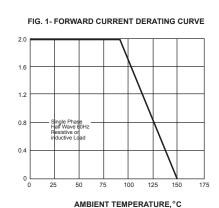
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

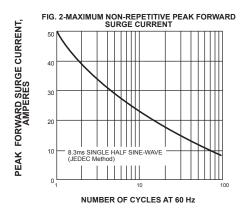
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

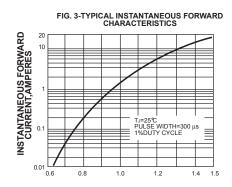
3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

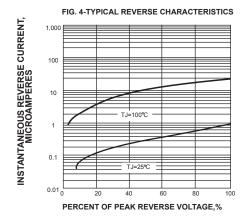
## **RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2M**











INSTANTANEOUS FORWARD VOLTAGE, VOLTS

