

RS2AA - RS2MA



1.5 AMPS. Surface Mount Fast Recovery Rectifiers SMA/DO-214AC

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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

Mechanical Data

- ♦ Cases: Molded plastic
- ♦ Terminals: Pure tin plated, Lead free.
- ♦ Polarity: Indicated by cathode band
- ♦ Packing: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.064 gram

Maximum Ratings and Electrical Characteristics

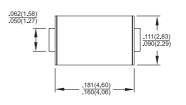
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

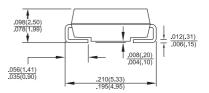
Type Number	Symbol	RS 2AA	RS 2BA	RS 2DA	RS 2GA	RS 2JA	RS 2KA	RS 2MA	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current See Fig. 1 @T∟=100°C	I _(AV)	1.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage @ 1.5A	V_{F}	1.3							V
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	5 200							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500				00	nS		
Typical Junction Capacitance (Note 2)	Cj	50							pF
Typical Thermal Resistance (Note 3)	R _{θJA} R _{θJL}	55 18							°C /W
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

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

 Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B. with 0.2"x0.2" (5.0 x 5.0 mm) Copper Pad Areas.

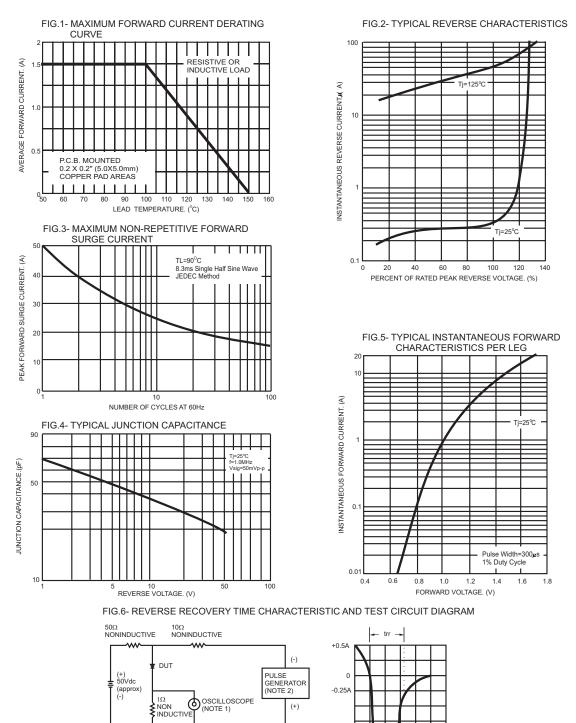




Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (RS2AA THRU RS2MA)



Tcm = SET TIME BASE FOR 5/ 10ns/ cm

-1.0A

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NOTES: 1. Rise Time=7ns max. Input Impedance=

1 megohm 22pf 2. Rise Time=10ns max. Sourse Impedance= 50 ohms