



RS2AB THRU RS2MB

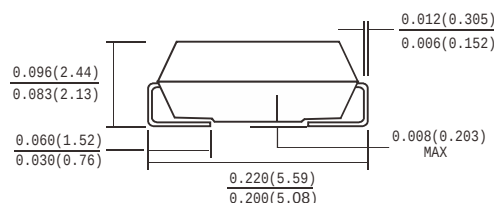
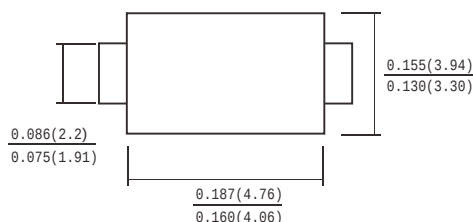
Surface Mount Fast Recovery Rectifiers

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junctions
- Fast switching for high efficiency
- High forward surge capability
- High temperature soldering:
260°C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/1 and WEEE 2002/96/EC



SMB(DO-214AA)



Dimensions in inches and (millimeters)

Mechanical Data

- **Case:** JEDEC DO-214AA molded plastic body over glass passivated chip
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

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	RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	Unit
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
Average Rectified Output Current @T _L =90℃	I _{F(AV)}	2.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50							A
Forward Voltage @IF=2.0A	V _{FM}	1.3							V
Peak Reverse Current @T _A =25℃	I _R	5.0							uA
At Rated DC Blocking Voltage @T _A =125℃		100							
I ² t Rating for Fusing (t < 8.3ms)	I ² t	10.37							A ² s
Maximum Reverse Recovery Time(Note 1)	T _{rr}	150				250	500		ns
Typical Junction Capacitance (Note 2)	C _J	40							pF
Typical Thermal Resistance Junction to Ambient(Note 3)	R _{θJA}	20							℃/W
Operating Temperature Range	T _J	-55 to+150							℃
Storage Temperature Range	T _{STG}	-55 to +150							℃

Note: 1.Reverse Recovery Test Conditions: $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $IRR = 0.25\text{A}$.

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. 8.0MM² (.013mm Thick) Land Areas.



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Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

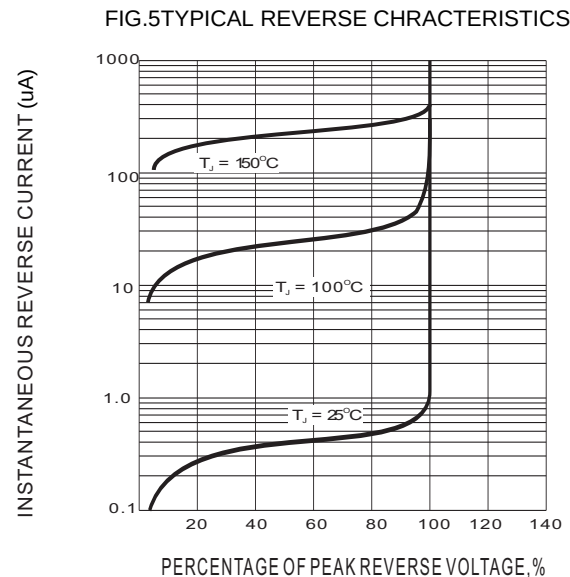
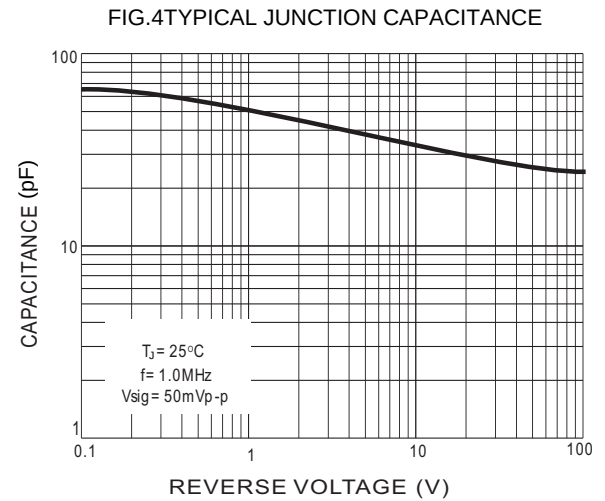
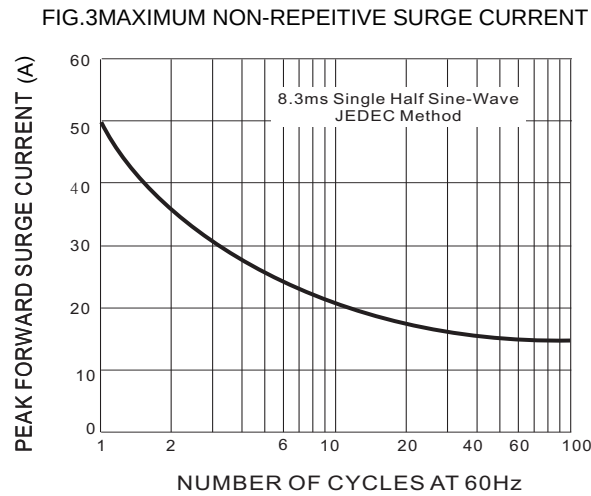
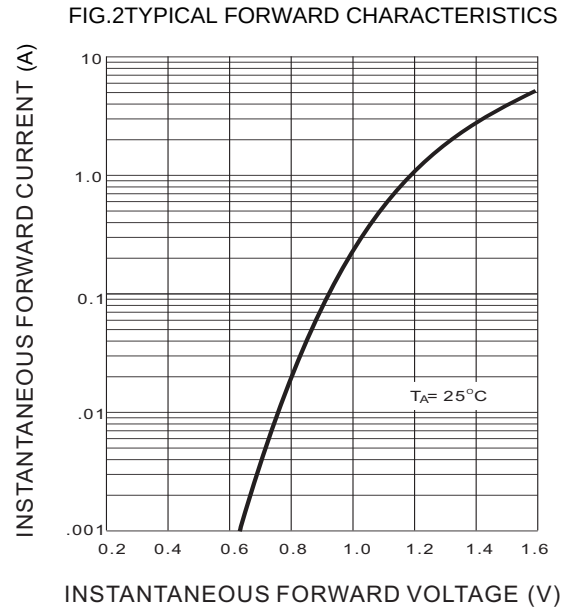
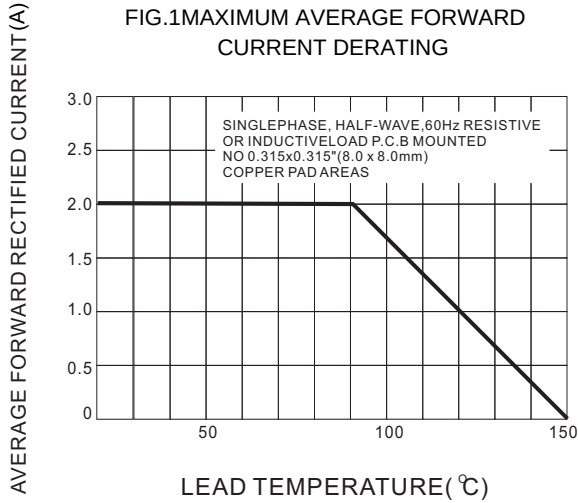


FIG.6 MOUNTING PAD LAYOUT

