

RS2A - RS2M

SURFACE MOUNT FAST RECOVERY RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 2.0 A

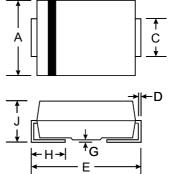
Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Low Power Loss
- Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)





- B -

SMB(DO-214AA)							
Dim	Min	Max					
Α	3.30	3.94					
в	4.06	4.70					
С	1.91	2.21					
D	0.15	0.31					
Е	5.00	5.59					
G	0.10	0.20					
н	0.76	1.52					
J	2.00	2.62					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current $@T_L = 90^{\circ}C$	lo	2.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	50					A		
Forward Voltage $@I_F = 2.0A$	Vfm	1.30						V	
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 125^{\circ}C$	Iгм	5.0 300						μA	
Reverse Recovery Time (Note 1)	trr		1	50		250	500		nS
Typical Junction Capacitance (Note 2)	Cj				50				pF
Typical Thermal Resistance (Note 3)	R∉JL				20				°C/W
Operating and Storage Temperature Range	Tj, TSTG	-50 to +150						°C	

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See figure 5.

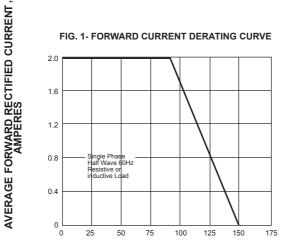
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

3. Mounted on P.C. Board with 8.0mm² land area.



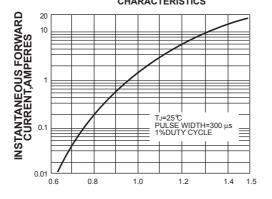


RATINGS AND CHARACTERISTIC CURVES RS2ATHRU RS2M

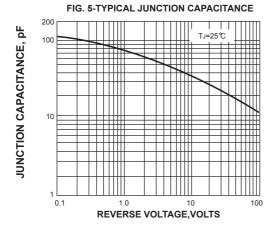


AMBIENT TEMPERATURE, °C





INSTANTANEOUS FORWARD VOLTAGE, VOLTS



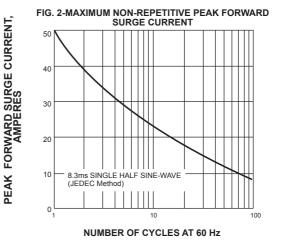
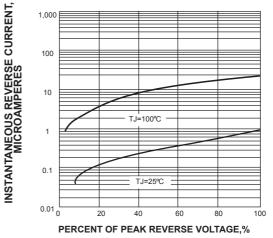
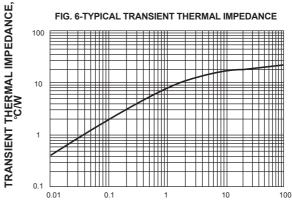


FIG. 4-TYPICAL REVERSE CHARACTERISTICS





t,PULSE DURATION,sec.