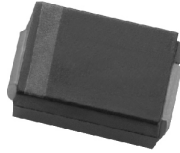


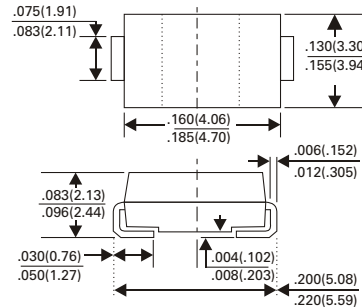
RS2AB thru RS2MB

FAST SWITCHING SURFACE MOUNT RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 2.0 AMPERES



SMB/DO-214AA



Dimensions in inches and (millimeters)

FEATURES

- For surface mount applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability classification 94V-0
- Glass passivated junction
- High temperature soldering : 260°C/10seconds at terminals
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic
 Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity : Indicated by cathode band
 Standard packaging : 12mm tape (EIA-481)
 Weight : 0.003 ounce, 0.093grams

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, derate current by 20%

	SYMBOL	RS2AB	RS2BB	RS2DB	RS2GB	RS2JB	RS2KB	RS2MB	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current @ $T_L = 90^\circ\text{C}$	I_{AV}	2.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage at 2.0A	V_F	1.3							Volts
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$	I_R	5.0 200							μA
Maximum Reverse Recovery Time (NOTE 1) $T_J = 25^\circ\text{C}$	T_{RR}	150				250	300		nS
Typical Junction Capacitance (NOTE 2)	C_J	40							pF
Maximum Thermal Resistance (NOTE 3)	$R_{\theta JL}$	20							$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES :

1. Reverse Recovery Test Conditions $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$
2. Measured at 1 MHz and applied $V_R = 4.0$ volts
3. 8.0mm² (.013mm thick) land areas

RS2AB thru RS2MB

FAST SWITCHING SURFACE MOUNT RECTIFIER

RATING AND CHARACTERISTICS CURVES RS2AB THRU RS2MB

Fig. 1 - FORWARD CURRENT DERATING CURVE

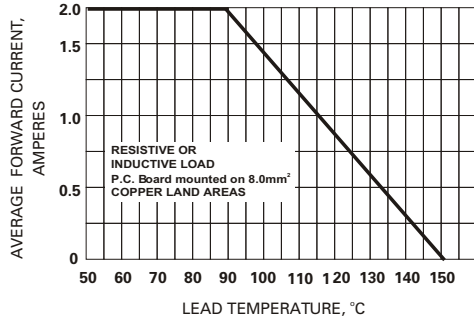


Fig. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

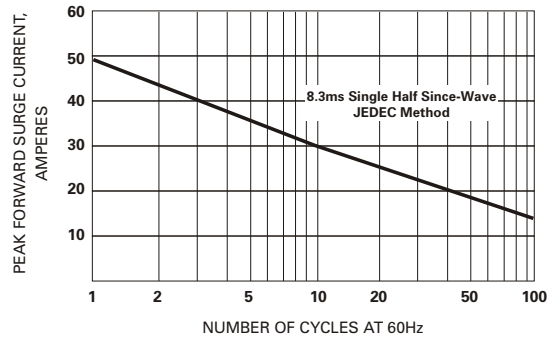


Fig. 3 - FORWARD CHARACTERISTICS

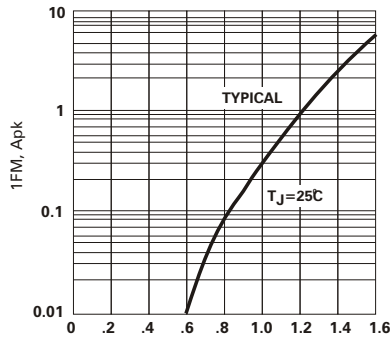


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS

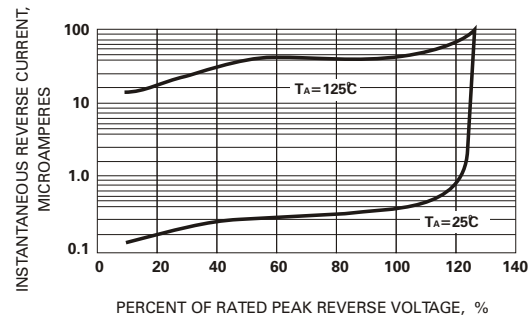


Fig. 5 - TYPICAL JUNCTION CHARACTERISTICS

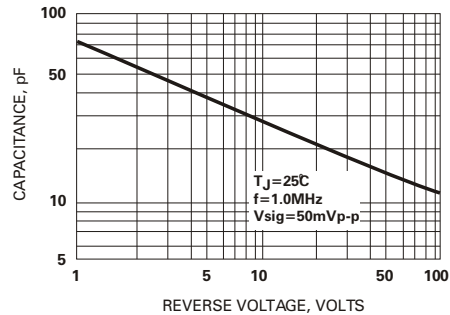


Fig. 6 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

