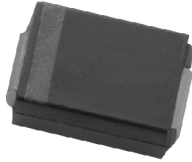


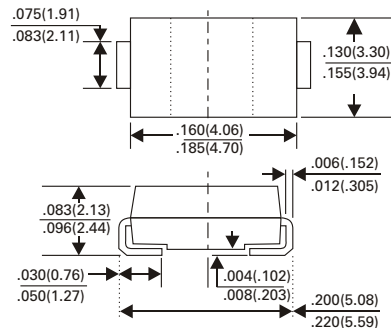
RS1AB thru RS1MB

SURFACE MOUNT FAST RECOVERY RECTIFIER

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES



SMB/DO-214AA



Dimensions in inches and (millimeters)

FEATURES

- Ideal for surface mount applications
- Glass Passivated Chip
- Low Reverse Leakage Current
- Low Forward Voltage Drop And High Current Capability
- Plastic Material Has UL Flammability Classification 94V-0

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic
Epoxy : UL 94V-0 rate flame retardant
Metallurgically bonded construction
Polarity : Color band denotes cathode end
Mounting position : Any
Weight : 0.003 Ounce, 0.093 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, derate current by 20%

	SYMBOL	RS1AB	RS1BB	RS1DB	RS1GB	RS1JB	RS1KB	RS1MB	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 .0375" (9.5mm)Lead Length at T _A =55°C	I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							Amps
Maximum Instantaneoue at 1.0A DC	V _F	1.3							Volts
Maximum DC Reverse Current @T _A =25°C at Rated DC Blocking Voltage @T _A =100°C	I _R	5.0 100							μ A
Maximum Reverse Recovery Time	T _{RR}	150				250	500		nS
Typical Junction Capacitance	C _J	15							pF
Operating Temperature Range	T _J	+175							°C
Storage Temperature Range	T _{STG}	-65 to +175							°C

NOTES :

1. Measured at 1 MHz and applied reverse Voltage of 4.0VDC
2. Thermal Resistance Junction to case

RS1AB thru RS1MB

SURFACE MOUNT FAST RECOVERY RECTIFIER

RATING AND CHARACTERISTICS CURVES RS1AB THRU RS1MB

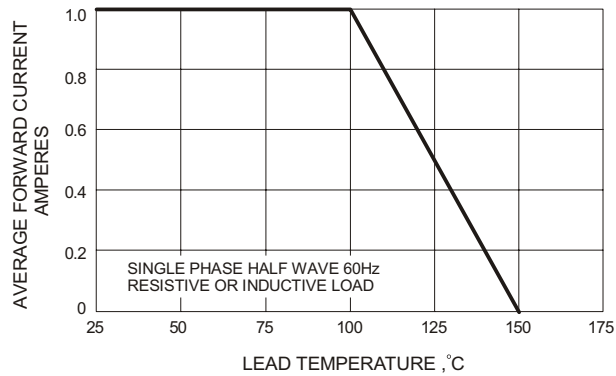


FIG.1 Forward Current Derating Curve

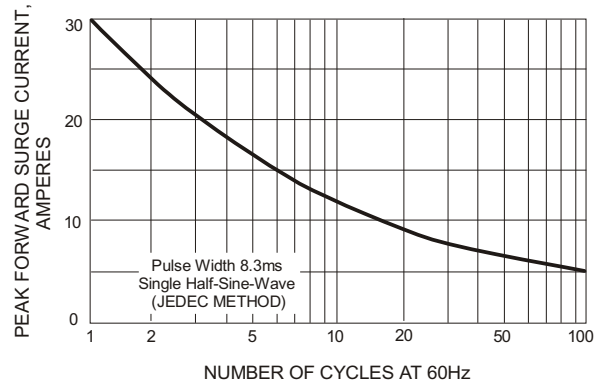


FIG.2 Maximum Non-Repetitive Surge Current

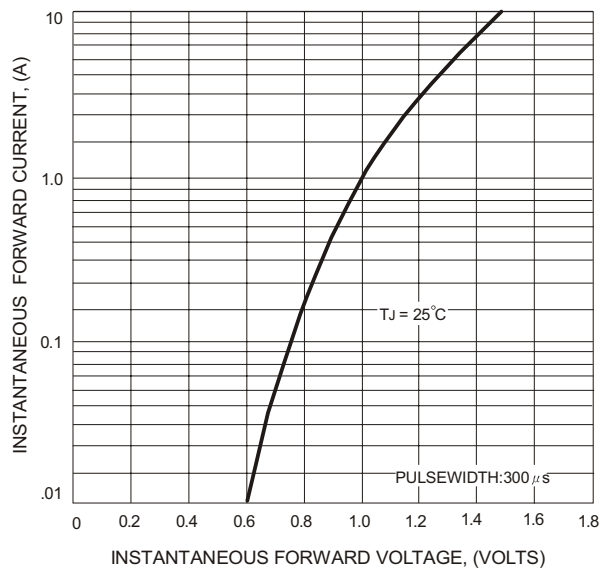


FIG.3 Typical Forward Characteristics

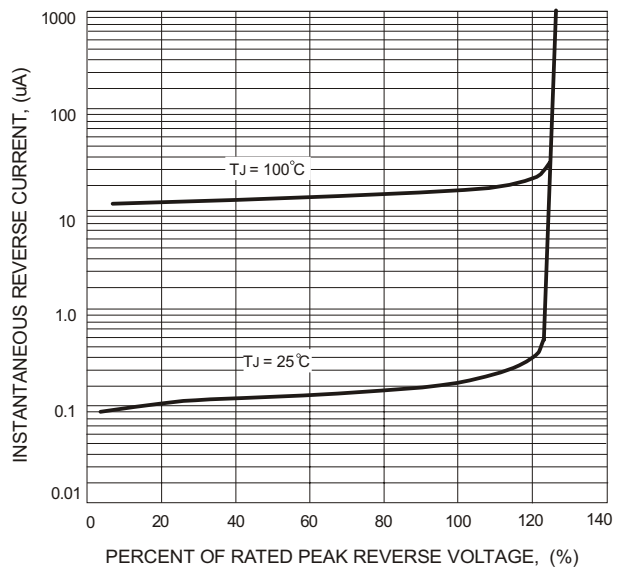


FIG.4 Typical Reverse Characteristics