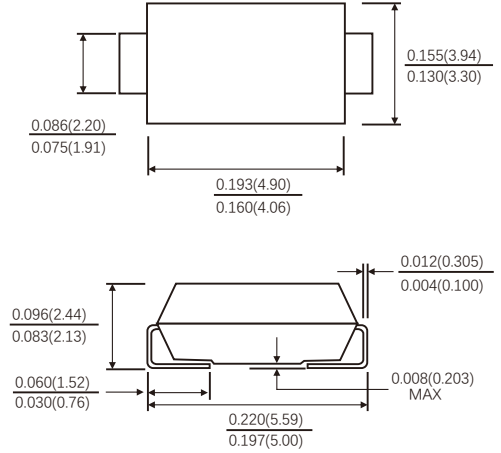


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2015/863/EU



SMB(DO-214AA)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.003ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters	Symbols	SS22B	SS23B	SS24B	SS26B	SS210B	SS215B	SS220B	Units
Maximum repetitive peak reverse voltage	VRRM	20	30	40	60	100	150	200	Volts
Maximum RMS voltage	VRMS	14	21	28	42	71	105	140	Volts
Maximum DC blocking voltage	VDC	20	30	40	60	100	150	200	Volts
Maximum average forward rectified current	I(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50.0							Amps
Maximum instantaneous forward voltage at 2.0 A(Note 1)	VF	0.55		0.70		0.85	0.90	0.95	Volts
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T _J =25°C	100				20			μA
	T _J =100°C	5.0				-			mA
	T _J =125°C	-				3.0			
Typical thermal resistance (Note 2)	Junction-Ambient	RθJA				70.0			°C/W
	Junction-Lead	RθJL				25.0			
Operating junction temperature range	T _J	-55 to+150							°C
Storage temperature range	TSTG	-55 to+150							°C

Notes: 1.Pulse test: 300μs pulse width,1% duty cycle
2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

FIG.1-FORWARD CURRENT DERATING CURVE

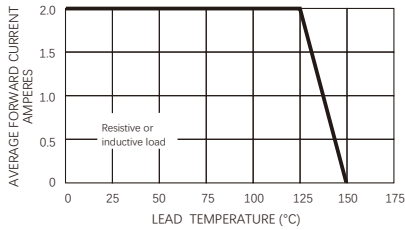


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

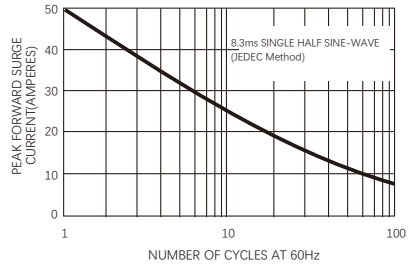


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

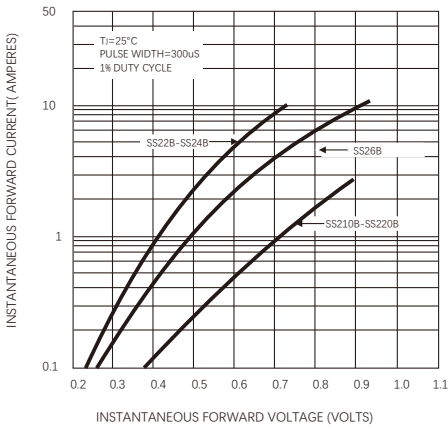


FIG.4-TYPICAL REVERSE CHARACTERISTICS

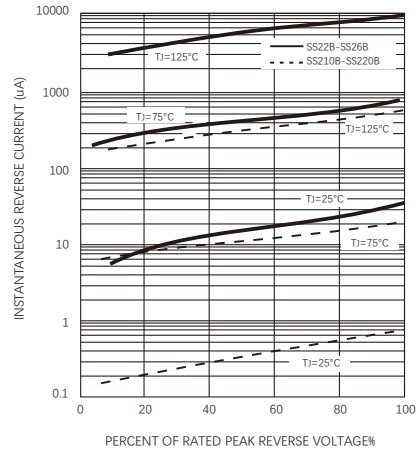
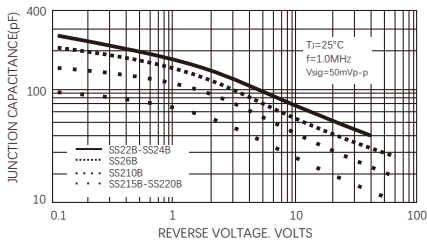


FIG.5-TYPICAL JUNCTION CAPACITANCE



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