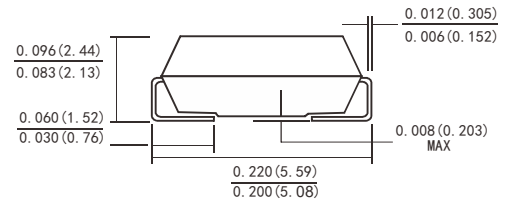
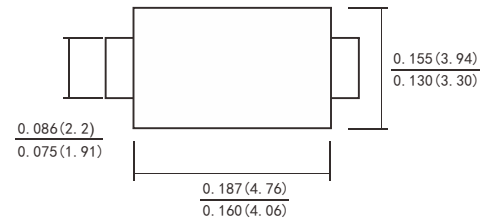


**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**
**FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Guard ring for overvoltage protection
- Built-in strain relief
- For surface mounted applications
- Low profile package
- 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 2002/95/EC and WEEE 2002/96/EC

Reverse Voltage - 20 to 200 Volts  
Forward Current - 2.0Amperes

**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

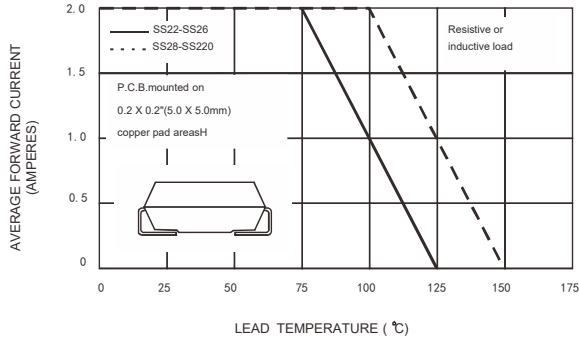
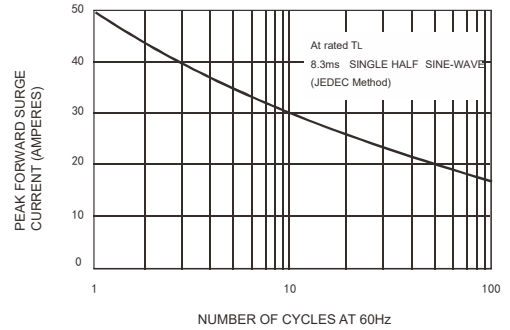
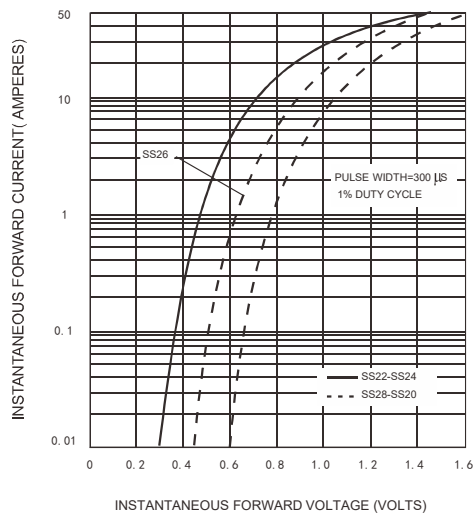
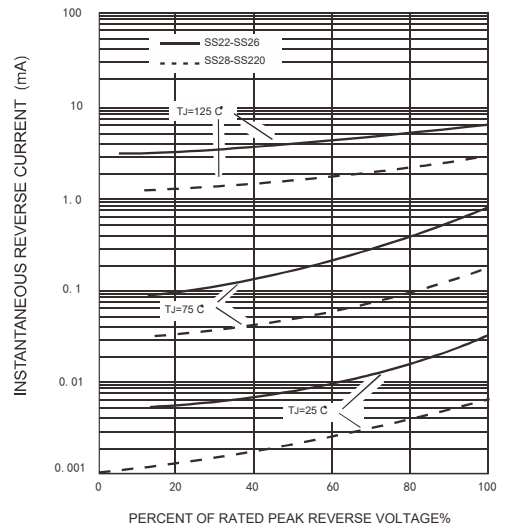
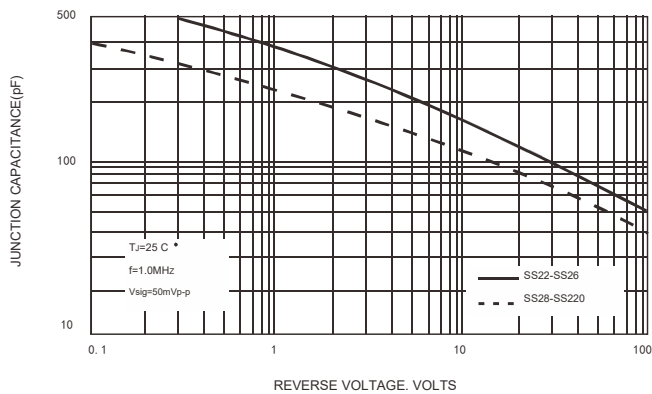
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

	V <sub>RRM</sub>	SS22	SS24	SS26	SS28	SS210	SS215	SS220	Volts	
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	60	80	100	150	200	Volts	
Maximum RMS voltage	V <sub>RMS</sub>	14	28	42	56	70	105	140	Volts	
Maximum DC blocking voltage	V <sub>DC</sub>	20	40	60	80	100	150	200	Volts	
Maximum average forward rectified current (See Fig. 1)	I(AV)	2.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50.0							Amps	
Maximum instantaneous forward voltage at 2.0 A(note 1)	V <sub>F</sub>	0.55	0.75	0.85				Volts		
Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)	T <sub>a</sub> =25°C	0.2			0.01				mA	
	T <sub>a</sub> =100°C	10.0			5.0					
Typical thermal resistance (Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	75.0 17.0				°C/W				
Operating junction temperature range	T <sub>J</sub>	-65 to+125				-65 to+150				°C
Storage temperature range	T <sub>STG</sub>	-65 to+150								°C

Notes: 1.Pulse test: 300 μs 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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