



**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
SS22 THRU SS210**

**VOLTAGE RANGE 20 to 100 Volts
Forward Current 2.0 Amperes**

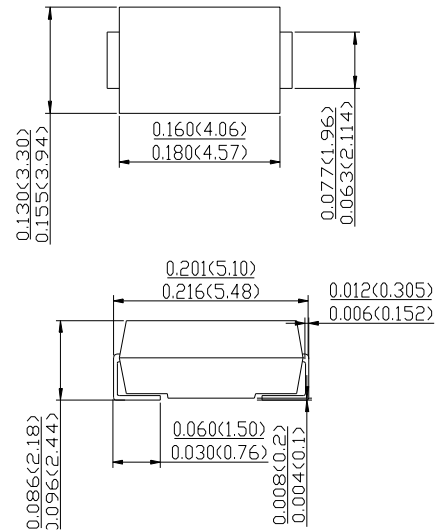
FEATURES

- | Plastic package has Unerwrites Laboratory Flammability Classification 94V-0
- | Metal silicon junction, majority carrier conduction
- | For surface mount applications
- | Guard ring for over voltage protection
- | Low power loss high efficiency
- | High current capability Low forward voltage drop
- | High surge capability
- | High temperature soldering:
250°C/10 seconds at terminals

MECHANICAL DATA

- | Case: JEDED 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, 0.093gram

SMB(DO-214AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210	UNITS	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts	
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts	
Maximum Average Forward Rectified Current at TL (see figure.1)	I _(AV)	2.0								Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0								Amps	
Maximum Instantaneous reverse of 2.0A (Note 1)	V _F	0.55			0.75		0.85			Volts	
Maximum instantaneous Reverse Current at rated DC blocking voltage (Note 1)	I _R	T _A =25°C	0.5								mA
		T _A =100°C	20				10				
Typical thermal capacitance (Note 2)	R _{QJL}	15								°C/W	
Operating and Storage Temperature Range	T _J	-65 to +125				-65 to +150				°C	
Storage temperature range	T _{STG}	-65 to +150									

NOTES:

1. Pulse test: 300µs pulse width, 1% duty cycle.
2. P.C.B. Mounted with 0.2*0.2"(5.0*5.0mm) copper pads.



RATING AND CHARACTERISTIC CURVES SS22 thru SS210

FIG.1-FORWARD CURRENT DERATING CURVE

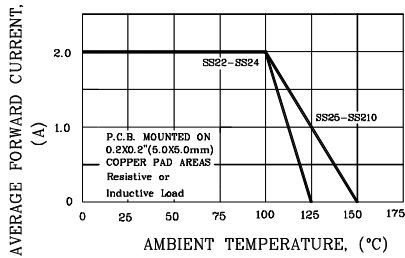


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

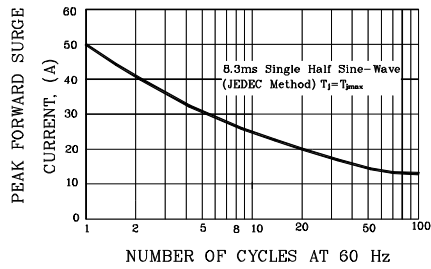


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

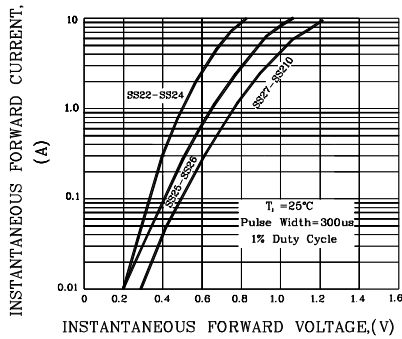


FIG.4-TYPICAL REVERSE CHARACTERISTICS

