

### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.093 grams

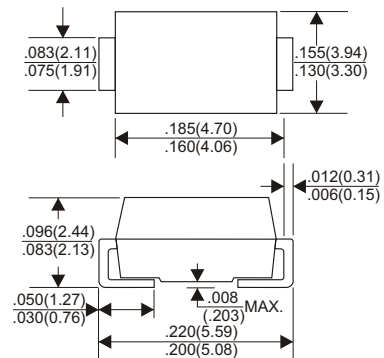
### VOLTAGE RANGE

45 to 200 Volts

### CURRENT

10.0Ampere

#### DO-214AA(SMB)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

| TYPE NUMBER  | SS1045      | SS1060 | SS10100     | SS10150 | SS10200 | UNITS |
|--|-------------|--------|-------------|---------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage   | 45          | 60     | 100         | 150     | 200     | V     |
| Maximum RMS Voltage  | 32          | 42     | 70          | 105     | 140     | V     |
| Maximum DC Blocking Voltage  | 45          | 60     | 100         | 150     | 200     | V     |
| Maximum Average Forward Rectified Current  | 10.0        |        |             |         |         | A     |
| See Fig. 1   |             |        |             |         |         |       |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 175         |        |             |         |         | A     |
| Maximum Instantaneous Forward Voltage at 10.0A   | 0.55        | 0.7    | 0.85        | 0.92    |         | V     |
| Maximum DC Reverse Current Ta=25°C   | 150         |        | 50          |         |         | µA    |
| at Rated DC Blocking Voltage Ta=125°C  | 50          |        | 20          |         |         | mA    |
| Typical Junction Capacitance (Note1)   | 400         |        |             |         |         | pF    |
| Typical Thermal Resistance R JA (Note 2)   | 16          |        |             |         |         | °C/W  |
| Operating Temperature Range Tj   | —           |        | -55 to +150 |         | —       | °C    |
| Storage Temperature Range Tstg   | -55 to +150 |        |             |         |         | °C    |

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

## RATING AND CHARACTERISTIC CURVES (SS1045 THRU SS10200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

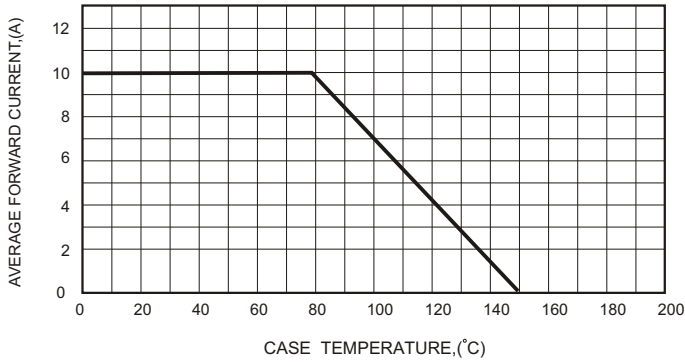


FIG.2-TYPICAL FORWARD CHARACTERISTICS

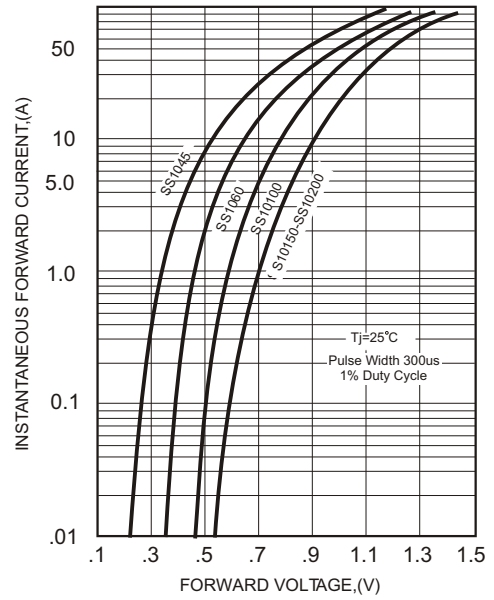


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

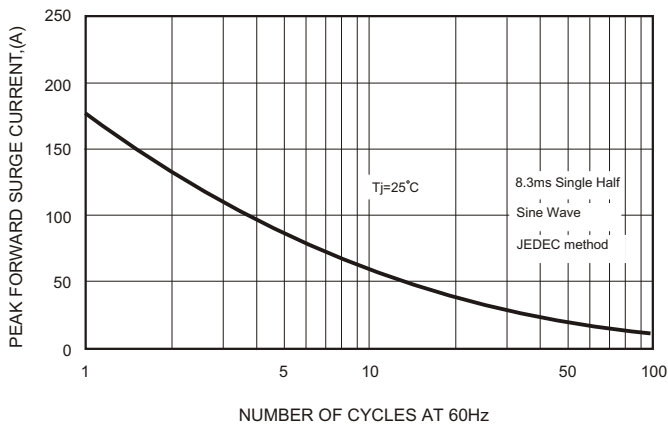


FIG.4-TYPICAL JUNCTION CAPACITANCE

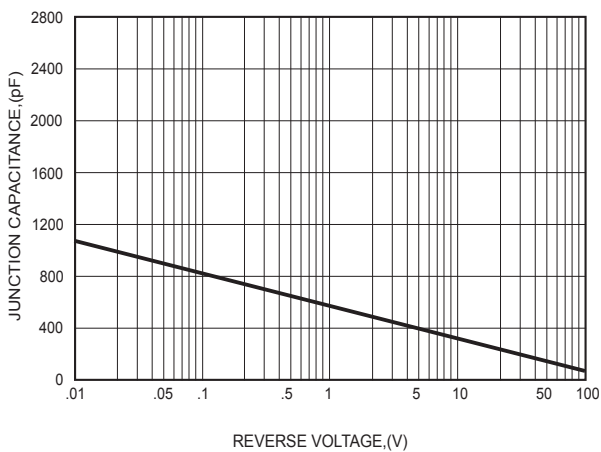


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

