

### 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: 0.21 grams

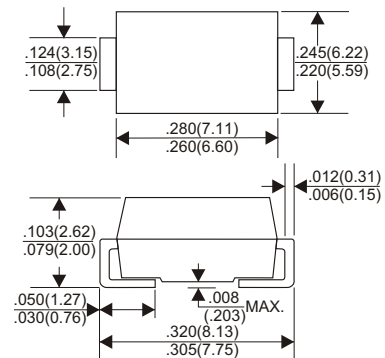
### VOLTAGE RANGE

20 to 100 Volts

### CURRENT

8.0 Ampere

#### DO-214AB(SMC)



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   | SS82       | SS83 | SS84 | SS85     | SS86 | SS88 | SS89 | SS810 | UNITS |
|---|------------|------|------|----------|------|------|------|-------|-------|
| Maximum Recurrent Peak Reverse Voltage  | 20         | 30   | 40   | 50       | 60   | 80   | 90   | 100   | V     |
| Maximum RMS Voltage   | 14         | 21   | 28   | 35       | 42   | 56   | 63   | 70    | V     |
| Maximum DC Blocking Voltage   | 20         | 30   | 40   | 50       | 60   | 80   | 90   | 100   | V     |
| Maximum Average Forward Rectified Current<br>at T <sub>L</sub> =90°C                                  | 8.0        |      |      |          |      |      |      |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 175        |      |      |          |      |      |      |       | A     |
| Maximum Instantaneous Forward Voltage at 8.0A   | 0.55       |      | 0.70 |          |      | 0.85 |      |       | V     |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage  | 0.1        |      |      | 0.02     |      |      | mA   |       |       |
|   | Ta=25°C    |      |      | Ta=100°C |      |      |      |       |       |
| Typical Junction Capacitance (Note1)  | 380        |      |      |          |      |      |      |       | pF    |
| Typical Thermal Resistance R <sub>JL</sub> (Note 2)   | 10         |      |      |          |      |      |      |       | °C/W  |
| Operating Temperature Range T <sub>J</sub>  | -65 — +150 |      |      |          |      |      |      |       | °C    |
| Storage Temperature Range T <sub>STG</sub>  | -65 — +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 (SS82 THRU SS810)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

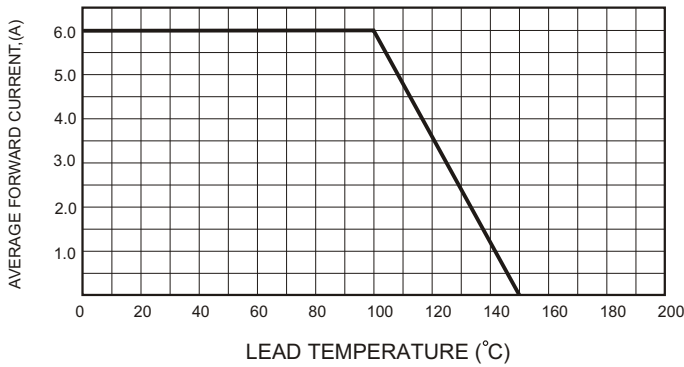


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

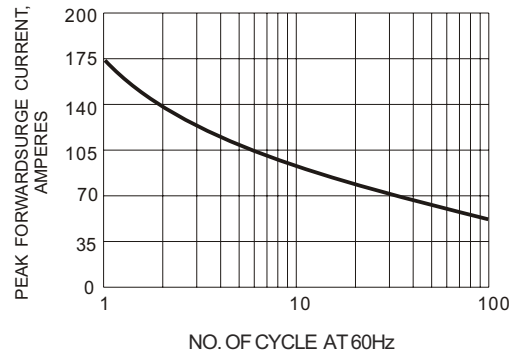


FIG.3-TYPICAL FORWARD CHARACTERISTICS

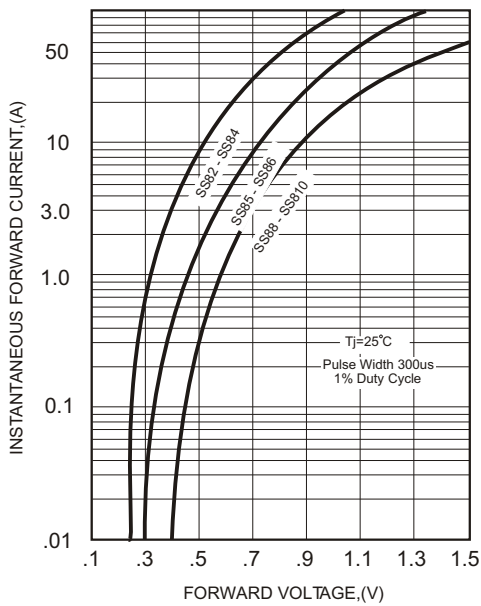
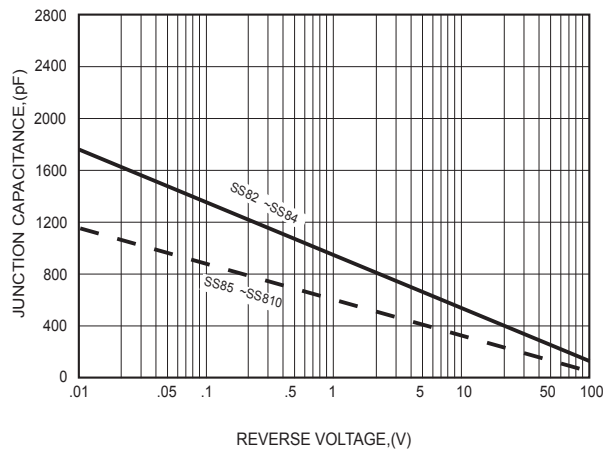


FIG.4-TYPICAL JUNCTION CAPACITANCE



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