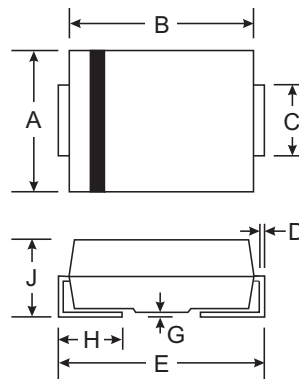
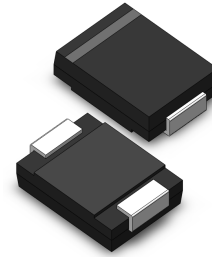


**VOLTAGE RANGE: 90 - 100V**  
**CURRENT: 3.0 A**

### Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Plastic Material - UL Flammability
- Classification 94V-0
- High Reliability
- High Current Capability and Low VF
- Submersible Temperature of 265°C for 10 Seconds in Solder Bath



| SMC/DO-214AB         |      |      |
|----------------------|------|------|
| Dim                  | Min  | Max  |
| A                    | 5.59 | 6.22 |
| B                    | 6.60 | 7.11 |
| C                    | 2.75 | 3.18 |
| D                    | 0.15 | 0.31 |
| E                    | 7.75 | 8.13 |
| G                    | 0.10 | 0.20 |
| H                    | 0.76 | 1.52 |
| J                    | 2.00 | 2.62 |
| All Dimensions in mm |      |      |

### Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic   | Symbol                               | SS3H9       | SS3H10 | Unit |
|--|--------------------------------------|-------------|--------|------|
| Peak Repetitive Reverse Voltage  | V <sub>RRM</sub>                     | 90          | 100    | V    |
| Working Peak Reverse Voltage   | V <sub>RWM</sub>                     |             |        |      |
| DC Blocking Voltage  | V <sub>R</sub>                       |             |        |      |
| RMS Reverse Voltage  | V <sub>R(RMS)</sub>                  | 64          | 71     | V    |
| Average Rectified Output Current @T <sub>L</sub> = 105°C   | I <sub>O</sub>                       | 3.0         |        | A    |
| Non-Repetitive Peak Forward Surge Current<br>8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I <sub>FSM</sub>                     | 80          |        | A    |
| Forward Voltage @I <sub>F</sub> = 2.0A   | V <sub>FM</sub>                      | 0.85        |        | V    |
| Peak Reverse Current @T <sub>A</sub> = 25°C<br>At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C                | I <sub>RM</sub>                      | 1.0         | 20     | mA   |
| Typical Thermal Resistance (Note 1)  | R <sub>θJL</sub><br>R <sub>θJA</sub> | 10<br>50    |        | °C/W |
| Operating Temperature Range  | T <sub>j</sub>                       | -65 to +125 |        | °C   |
| Storage Temperature Range  | T <sub>STG</sub>                     | -65 to +150 |        | °C   |

Note: 1. Mounted on P.C. Board with 8.0mm<sup>2</sup> copper pad area.

FIG. 1 - FORWARD CURRENT DERATING CURVE

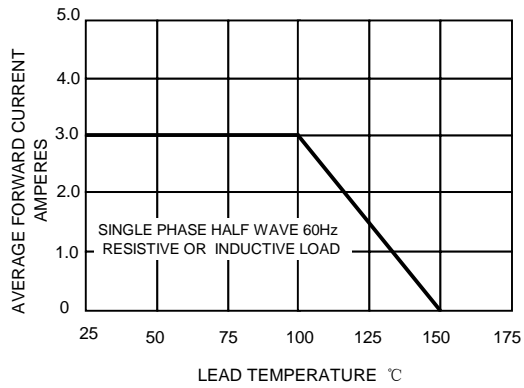


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

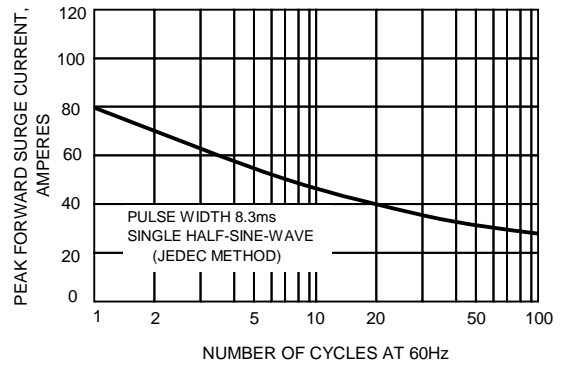


FIG.3-TYPICAL FORWARD CHARACTERISTICS

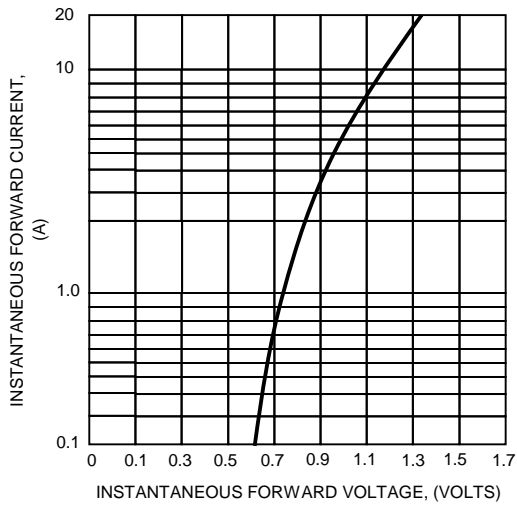


FIG.4-TYPICAL JUNCTION CAPACITANCE

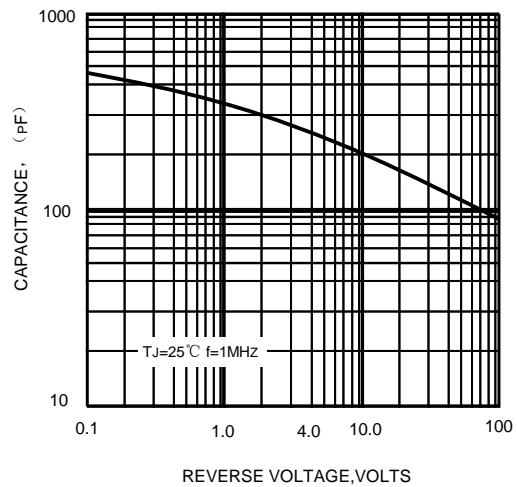


FIG.5-TYPICAL REVERSE CHARACTERISTICS

