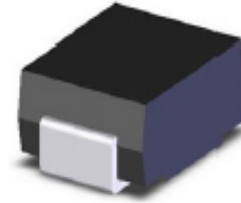


Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:
260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking



DO-214AA/SMB

Mechanical Data

- Case:DO-214AA Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

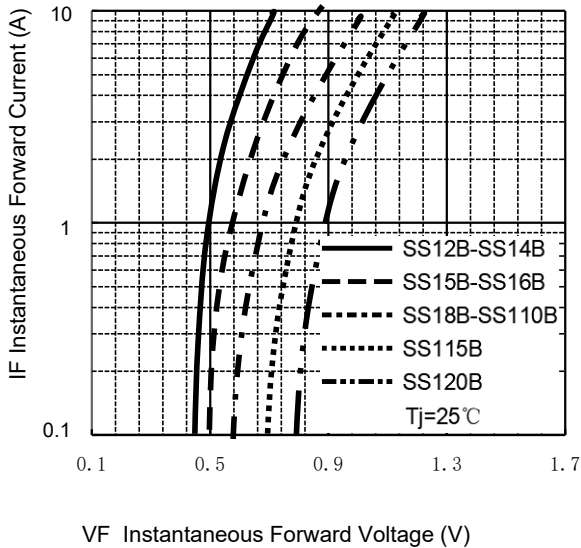
| Parameter | Symbols | SS12B | SS13B | SS14B | SS15B | SS16B | SS18B | SS110B | SS115B | SS120B | Unit | |
|--|------------------------------------|--------------|-------|-------|-------|-------|--------------|--------|--------|--------|------|----|
| Maximum repetitive peak reverse voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V | |
| Maximum RMS voltage | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | V | |
| Maximum DC blocking voltage | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | V | |
| Maximum average forward rectified current | $I_{F(AV)}$ | 1.0 | | | | | | | | | A | |
| Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave | I_{FSM} | 30 | | | | | | | | | A | |
| @ $I_F=1.0A$ Maximum forward voltage | V_F | 0.55 | | | 0.70 | | 0.85 | | 0.92 | 0.95 | V | |
| @ V_{DC} Maximum reverse current | I_R | 0.5 | | | | | 0.1 | | | | | mA |
| $TA=25^{\circ}C$ $TA=100^{\circ}C$ | | 20 | | | | | 10 | | | | | |
| Typical thermal resistance (Note 1) | $R_{\theta JA}$ $R_{\theta JL}$ | 85 25 | | | | | | | | | °C/W | |
| $V_R=4.0V, f=1MHz$ Type junction capacitance | C_J | 90 | | | | | | | | | pF | |
| Operating junction | T_J | -55 --- +125 | | | | | -55 --- +150 | | | | | °C |
| Storage temperature rang | T_{STG} | -55 --- +150 | | | | | | | | | °C | |

Note:

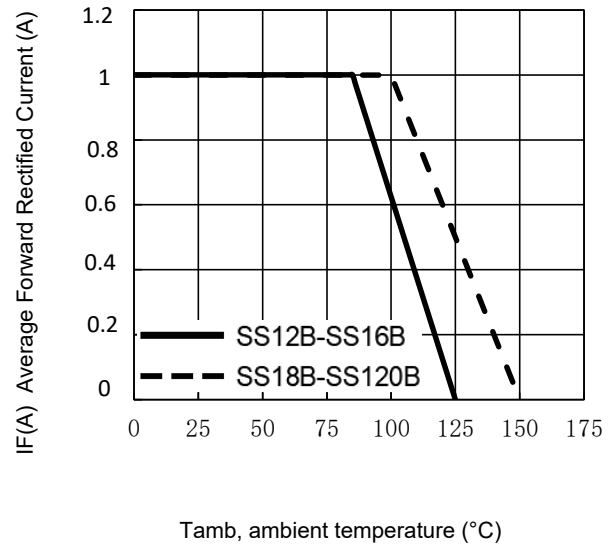
1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

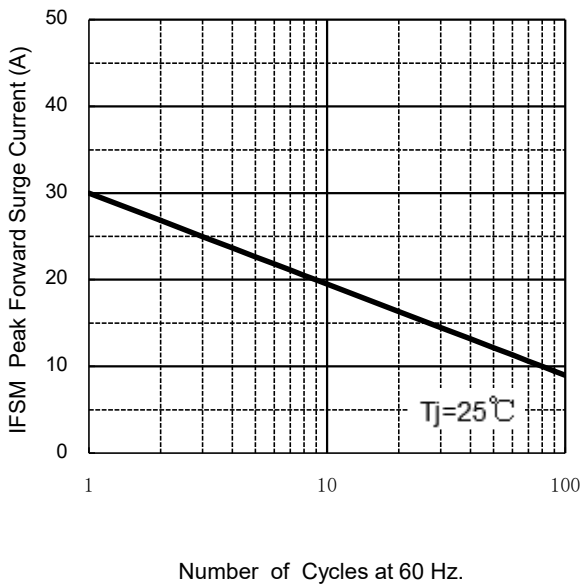
TYPICAL FORWARD CHARACTERISTIC



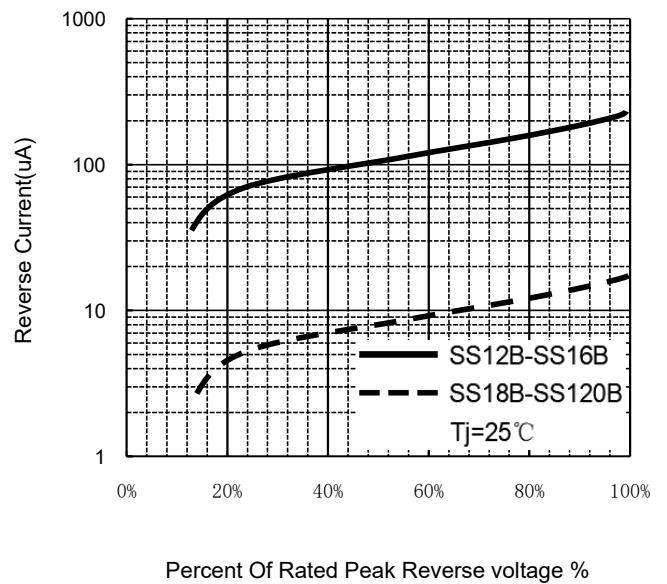
FORWARD CURRENT DERATING CURVE



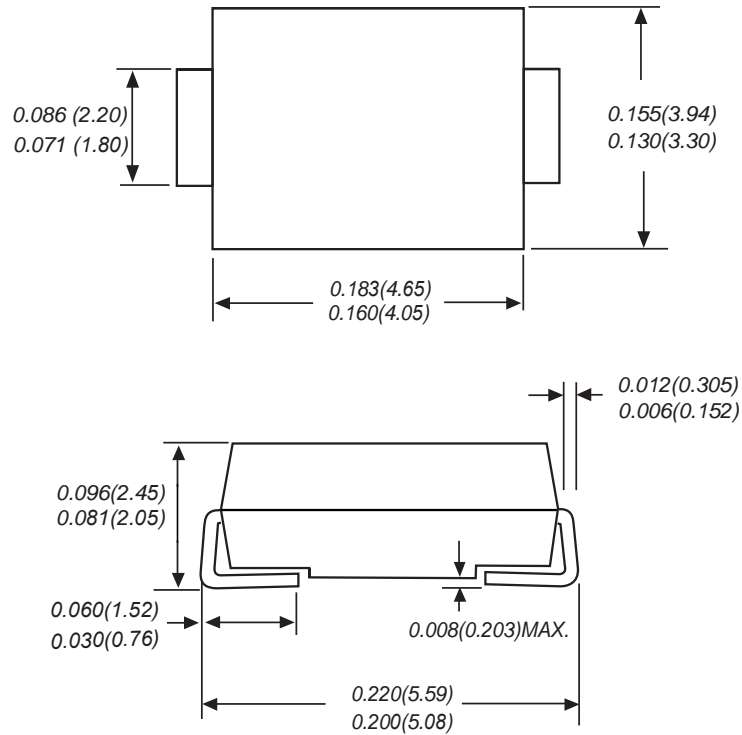
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS



Package Outline



Dimensions in inches and (millimeters)

Package Information

Qty: 3,000/Tape and reel