

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-214AB/SMC

Mechanical Data

- Case:DO-214AB 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.

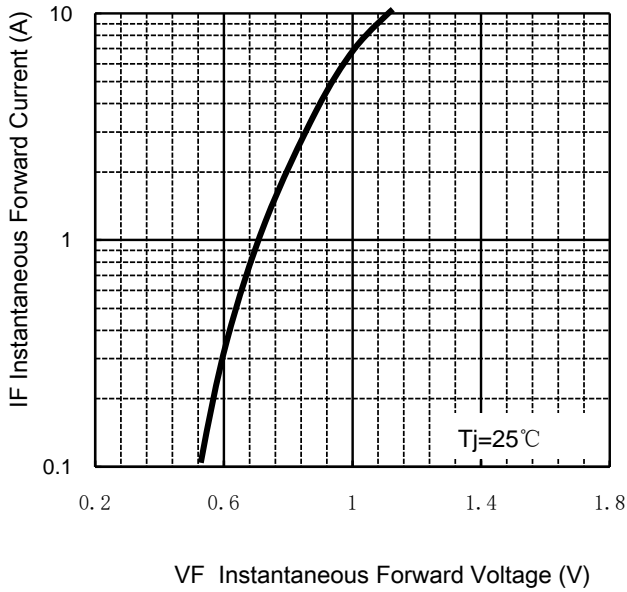
| Parameter | Symbols | S5A | S5B | S5D | S5G | S5J | S5K | S5M | Unit |
|--|-----------------|--------------|-----|-----|-----|-----|-----|------|---------|
| Maximum repetitive peak reverse voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum average forward rectified current | $I_{F(AV)}$ | 5.0 | | | | | | | A |
| Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave | I_{FSM} | 150 | | | | | | | A |
| @ $I_F=5.0A$ Maximum forward voltage | V_F | 1.1 | | | | | | | V |
| @ V_{DC} Maximum reverse current | I_R | 5 | | | | | | | μA |
| | | 100 | | | | | | | |
| Typical thermal resistance (Note 1) | $R_{\theta JA}$ | 47 | | | | | | | °C/W |
| VR=4.0V,f=1MHz Type junction capacitance | C_J | 65 | | | | | | | pF |
| Operating junction and storage temperature rang | T_J, T_{STG} | -55 --- +150 | | | | | | | °C |

Note:

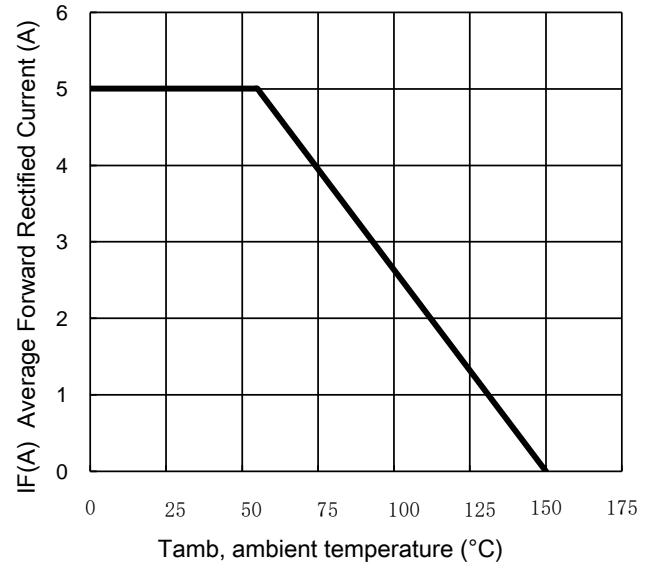
- 1) Thermal resistance from junction to ambient , PCB mounted.

Characteristic Curves

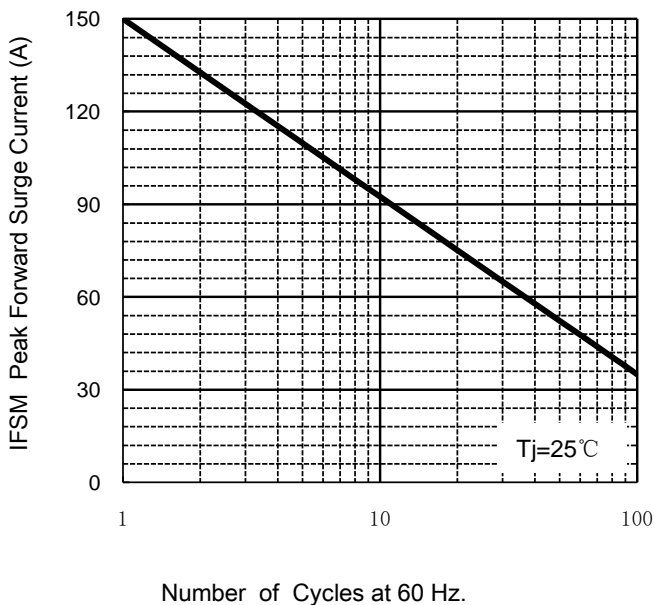
TYPICAL FORWARD CHARACTERISTIC



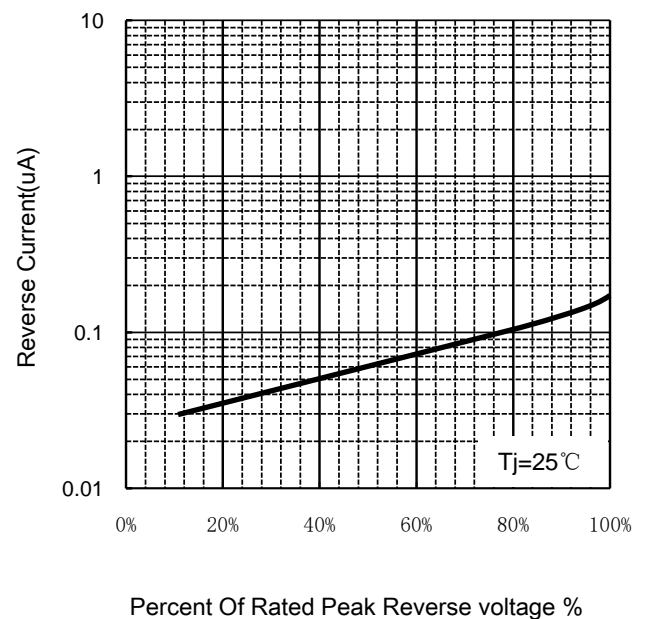
FORWARD CURRENT DERATING CURVE



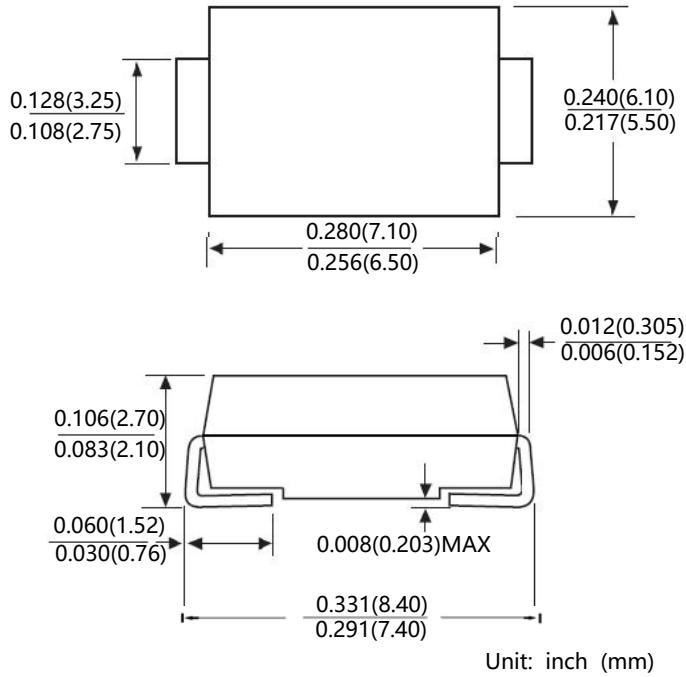
MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



Package Outline



Package Information

Qty: 3,000/Tape and reel