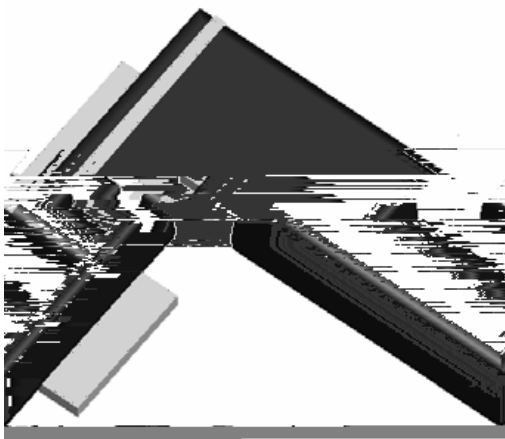


Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- **Package:** SMBF  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (Ta=25 Unless otherwise specified

| PARAMETER                                                                     | SYMBOL           | UNIT | SS510BFH |
|-------------------------------------------------------------------------------|------------------|------|----------|
| Device marking code                                                           |                  |      | SS510BFH |
| Repetitive peak reverse voltage                                               | V <sub>RRM</sub> | V    | 100      |
| Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1) | I <sub>O</sub>   | A    | 5.0      |
| Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25      | I <sub>FSM</sub> | A    | 100      |

Storage temperature

|                                                                                                       |                  |    |                       |      |
|-------------------------------------------------------------------------------------------------------|------------------|----|-----------------------|------|
|                                                                                                       | F                | V  | I <sub>FM</sub> =5.0A | 0.85 |
| Maximum DC reverse current at rated DC blocking voltage per diode @ V <sub>RM</sub> =V <sub>RRM</sub> | I <sub>RRM</sub> | mA | Ta=25                 | 0.1  |
|                                                                                                       |                  |    | Ta=100                | 5    |

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

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**SS510BFH**



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