



*DC COMPONENTS CO., LTD.*

RECTIFIER SPECIALISTS

SS12F  
THRU  
SS120F

**TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER**

**VOLTAGE RANGE - 20 to 200 Volts**

**CURRENT - 1.0 Ampere**

**FEATURES**

- \* Ideal for surface mounted applications
- \* Glass passivated junction
- \* Low leakage current
- \* Low power loss
- \* High efficiency

**MECHANICAL DATA**

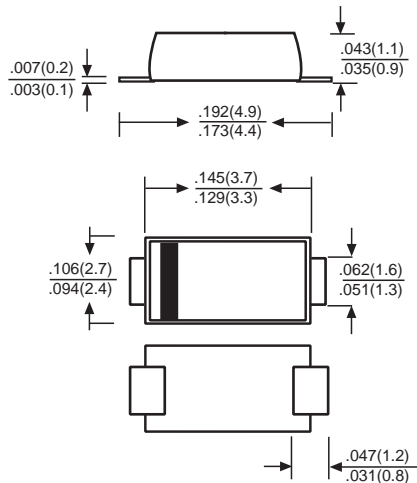
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- \* Polarity: As marked
- \* Mounting position: Any
- \* Weight: 0.03 gram

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.



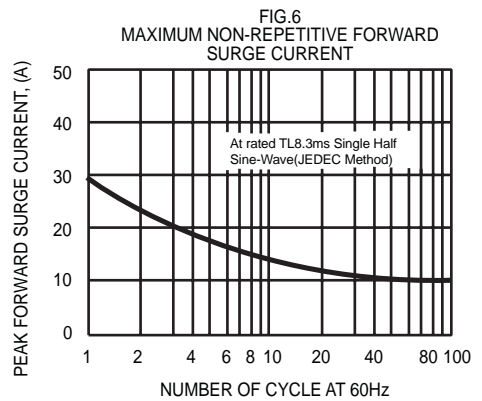
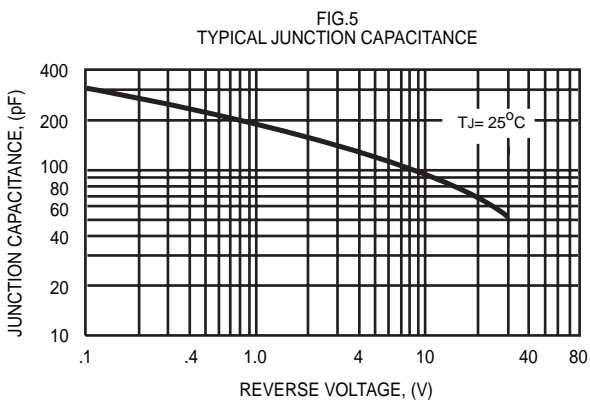
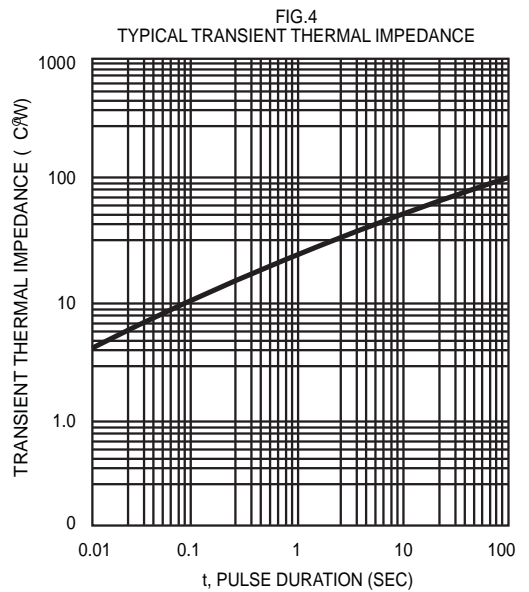
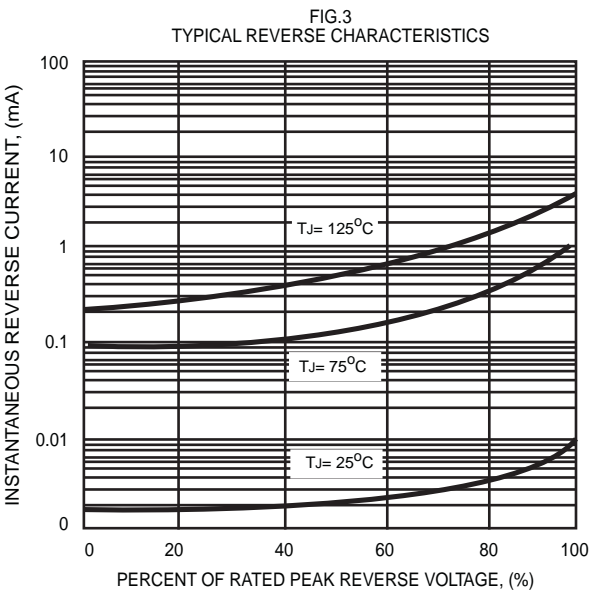
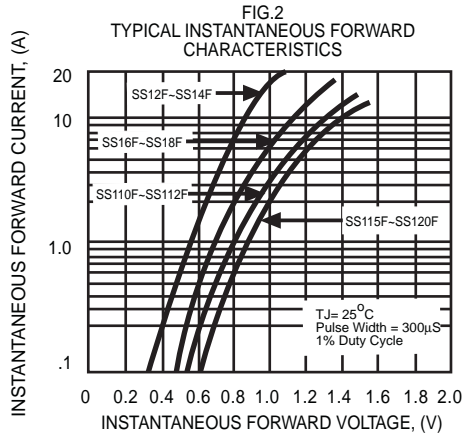
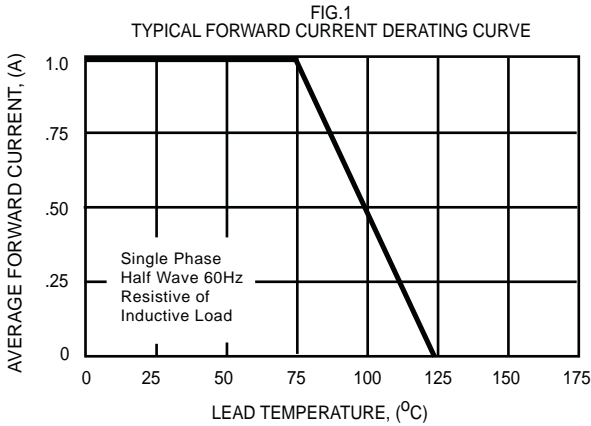
SMAFL



|   | SYMBOL       | SS12F       | SS14F | SS16F | SS18F | SS110F | SS112F | SS115F | SS120F | UNITS |
|---|--------------|-------------|-------|-------|-------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage  | VRRM         | 20          | 40    | 60    | 80    | 100    | 120    | 150    | 200    | Volts |
| Maximum RMS Voltage   | VRMS         | 14          | 28    | 42    | 56    | 70     | 84     | 105    | 140    | Volts |
| Maximum DC Blocking Voltage   | Vdc          | 20          | 40    | 60    | 80    | 100    | 120    | 150    | 200    | Volts |
| Maximum Average Forward Rectified Current at Derating Lead Temperature at TA = 75 °C              | IO           | 1.0         |       |       |       |        |        |        |        | Amps  |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM         | 30          |       |       |       |        |        |        |        | Amps  |
| Maximum Instantaneous Forward Voltage at 1.0A DC  | VF           | 0.55        |       | 0.70  |       | 0.85   |        | 0.95   |        | Volts |
| Maximum DC Reverse Current at Rated DC Blocking Voltage   | @ TA = 25°C  | 1.0         |       |       |       |        |        |        |        | mAmps |
|   | @ TA = 100°C | 10          |       |       |       |        |        |        |        |       |
| Typical Thermal Resistance (Note 1)   | RθJA         | 95          |       |       |       |        |        |        |        | °C/W  |
| Typical Junction Capacitance (Note 2)   | CJ           | 110         |       |       |       |        |        |        |        | pF    |
| Operating Temperature Range   | TJ           | -55 to +125 |       |       |       |        |        |        |        | °C    |
| Storage Temperature Range   | TSTG         | -55 to +150 |       |       |       |        |        |        |        | °C    |

- NOTES : 1. Thermal Resistance (Junction to Ambient)  
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
3. P.C.B. mounted with 0.2x0.2"(5x5mm<sup>2</sup>) copper pad area.

# RATING AND CHARACTERISTIC CURVES ( SS12F THRU SS120F )



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