

## FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## MECHANICAL DATA

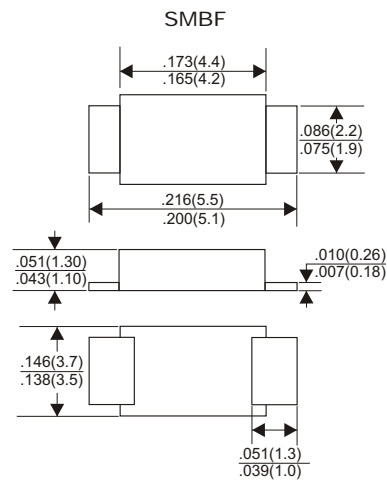
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

## VOLTAGE RANGE

150 to 200 Volts

## CURRENT

5.0 Amperes



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER   | SS515BF    | SS520BF | UNITS                     |
|---|------------|---------|---------------------------|
| Maximum Recurrent Peak Reverse Voltage  | 150        | 200     | V                         |
| Maximum RMS Voltage   | 105        | 140     | V                         |
| Maximum DC Blocking Voltage   | 150        | 200     | V                         |
| Maximum Average Forward Rectified Current<br>at $T_L=100^\circ\text{C}$                               | 5.0        |         | A                         |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 150        |         | A                         |
| Maximum Instantaneous Forward Voltage at 5.0A   | 0.92       |         | V                         |
| Maximum DC Reverse Current $T_a=25^\circ\text{C}$   | 0.05       |         | mA                        |
| at Rated DC Blocking Voltage $T_a=100^\circ\text{C}$  | 10         |         | mA                        |
| Typical Junction Capacitance (Note 1)   | 380        |         | PF                        |
| Typical Thermal Resistance $R_{\theta JL}$ (Note 2)   | 12         |         | $^\circ\text{C}/\text{W}$ |
| Operating Temperature Range $T_j$   | -65 — +150 |         | $^\circ\text{C}$          |
| Storage Temperature Range $T_{stg}$   | -65 — +150 |         | $^\circ\text{C}$          |

### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.375"(9.5mm) Lead Length.

## RATING AND CHARACTERISTIC CURVES (SS515BF THRU SS520BF)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

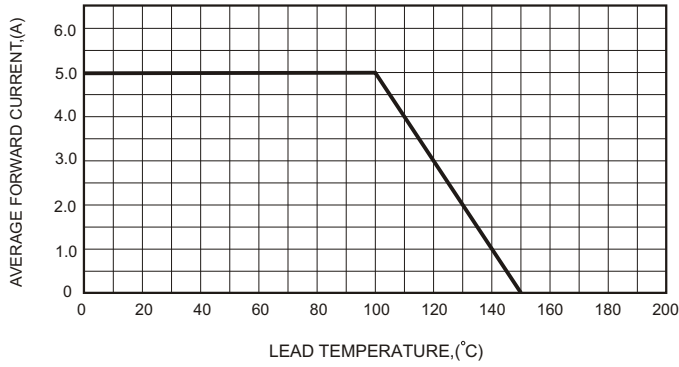


FIG.2-TYPICAL FORWARD CHARACTERISTICS

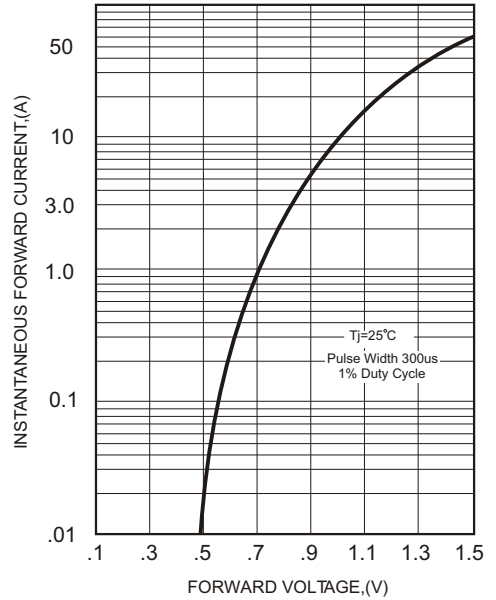


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

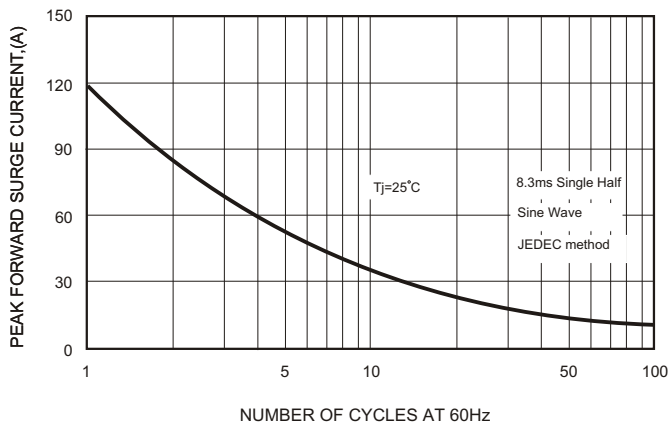


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

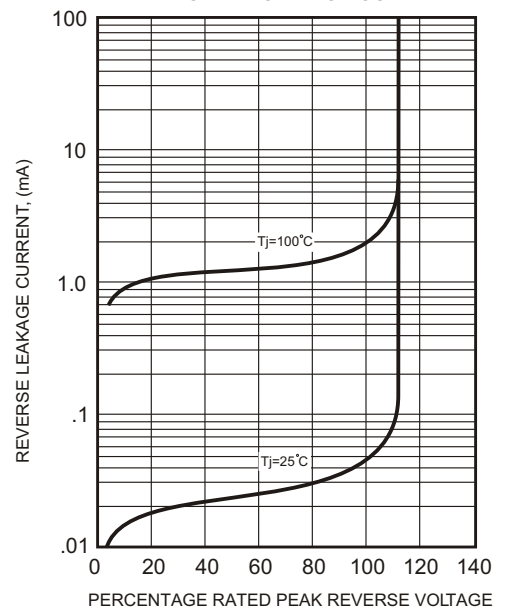


FIG.4-TYPICAL JUNCTION CAPACITANCE

