



# SS215BF THRU SS220BF

## 2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

### FEATURES

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

### MECHANICAL DATA

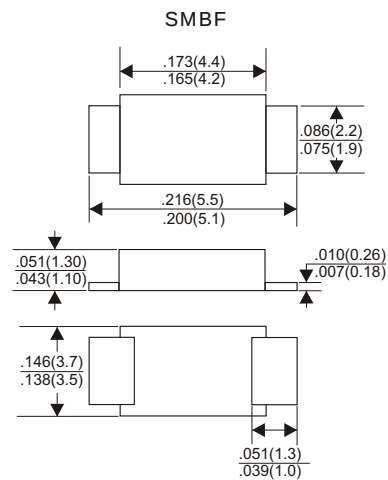
- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

### VOLTAGE RANGE

150 to 200 Volts

### CURRENT

2.0 Ampere



## 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                                                                                           | SS215BF    | SS220BF | 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 $T_L=100^{\circ}\text{C}$                             | 2.0        |         | A                    |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>superimposed on rated load (JEDEC method) | 50         |         | A                    |
| Maximum Instantaneous Forward Voltage at 2.0A                                                         | 0.92       |         | V                    |
| Maximum DC Reverse Current<br>at Rated DC Blocking Voltage                                            | 0.05       |         | mA                   |
| Typical Junction Capacitance (Note1)                                                                  | 170        |         | PF                   |
| Typical Thermal Resistance $R_{\theta JL}$ (Note 2)                                                   | 12         |         | $^{\circ}\text{C/W}$ |
| Operating Temperature Range $T_J$                                                                     | -55 — +175 |         | $^{\circ}\text{C}$   |
| Storage Temperature Range $T_{STG}$                                                                   | -55 — +175 |         | $^{\circ}\text{C}$   |

#### 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 (SS215BF THRU SS220BF)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

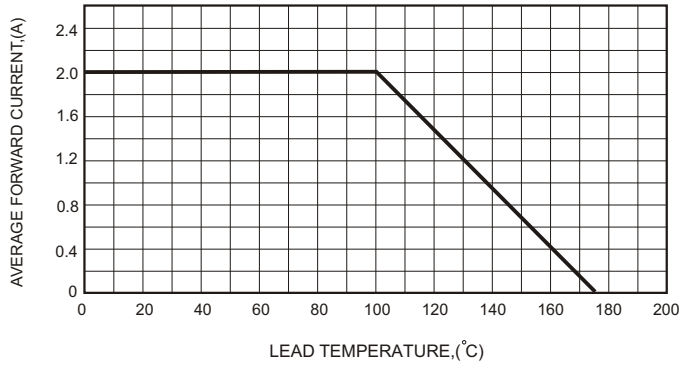


FIG.2-TYPICAL FORWARD CHARACTERISTICS

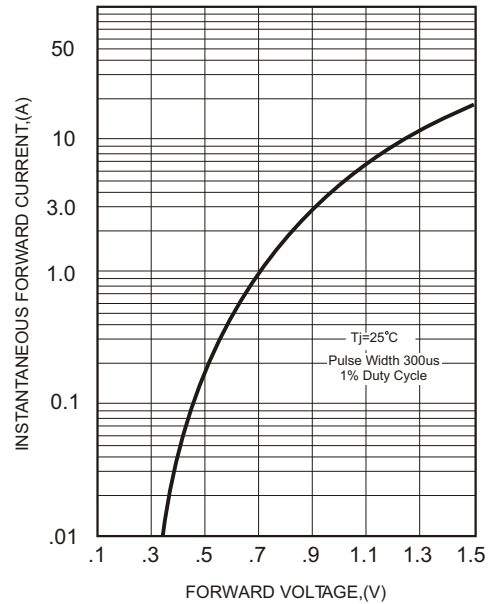


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

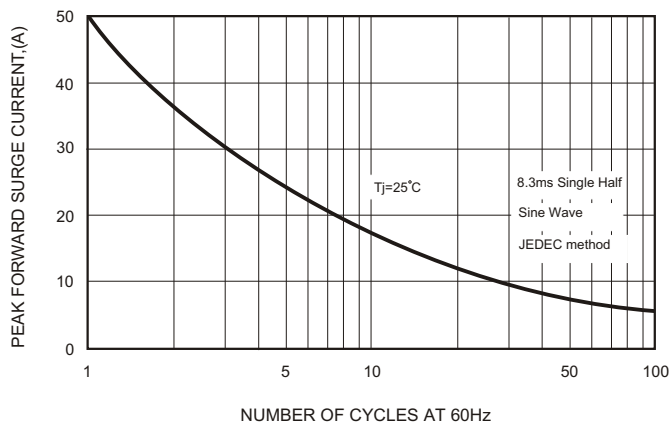


FIG.4-TYPICAL JUNCTION CAPACITANCE

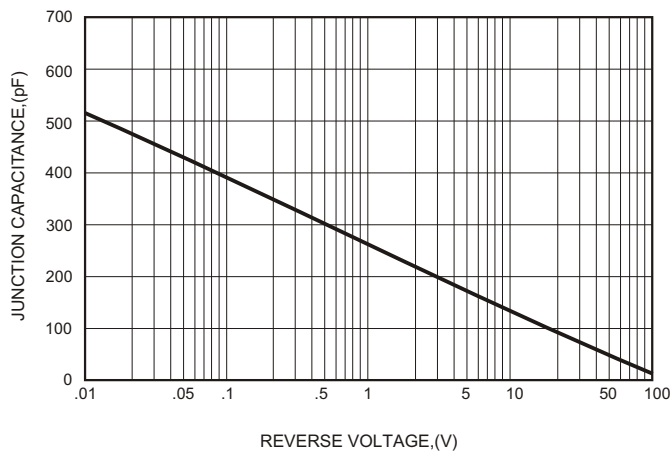
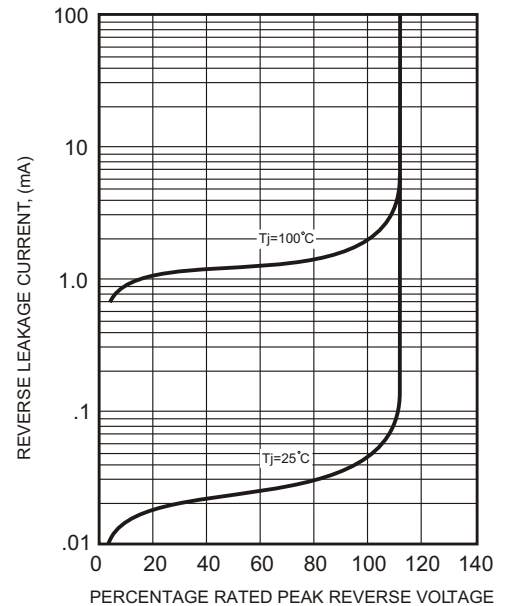


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



Attention:

The graph is for reference only, can't be the basis for judgment.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement.