



# SS56LB

## 5.0 AMP 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
- \* Weight: 0.093 grams

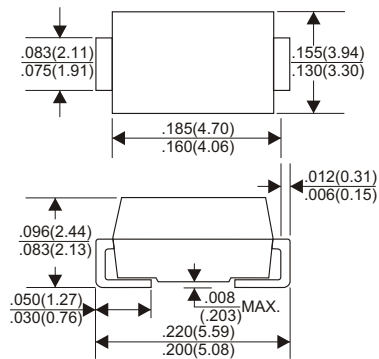
### VOLTAGE RANGE

60 Volts

### CURRENT

5.0 Amperes

#### DO-214AA(SMB)



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                                                                                        | SS56LB      | UNITS |
|----------------------------------------------------------------------------------------------------|-------------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 60          | V     |
| Maximum RMS Voltage                                                                                | 42          | V     |
| Maximum DC Blocking Voltage                                                                        | 60          | V     |
| Maximum Average Forward Rectified Current                                                          |             |       |
| See Fig. 1                                                                                         | 5.0         | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 120         | A     |
| Maximum Instantaneous Forward Voltage at 5.0A                                                      | 0.55        | V     |
| Maximum DC Reverse Current Ta=25 °C                                                                | 0.15        | mA    |
| at Rated DC Blocking Voltage Ta=125 °C                                                             | 30          | mA    |
| Typical Junction Capacitance (Note1)                                                               | 370         | pF    |
| Typical Thermal Resistance R JA (Note 2)                                                           | 70          | °C/W  |
| Operating Temperature Range Tj                                                                     | -55 to +125 | °C    |
| Storage Temperature Range Tstg                                                                     | -55 to +150 | °C    |

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Unit mounted on PC board with 5.0mm× 5.0 mm (0.013 mm thick) copper pads as heat sink

## RATING AND VCHARACTERISTIC CURVES(SS 56LB)

FIG.1-FORWARD CURRENT DERATING CURVE

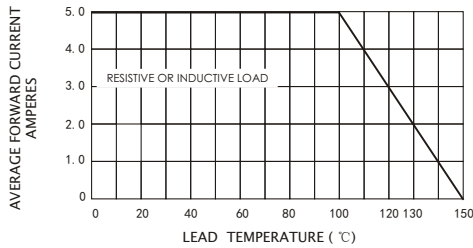


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

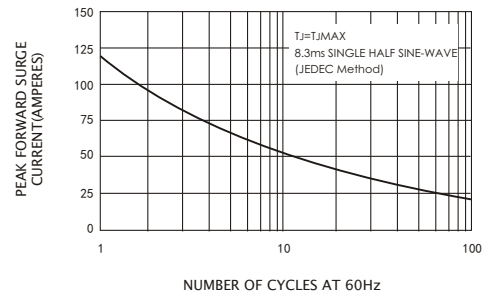


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

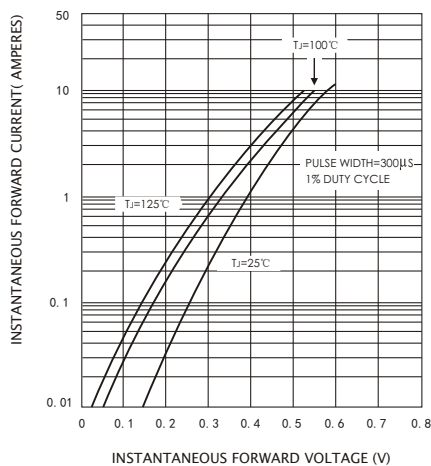


FIG.4-TYPICAL REVERSE CHARACTERISTICS

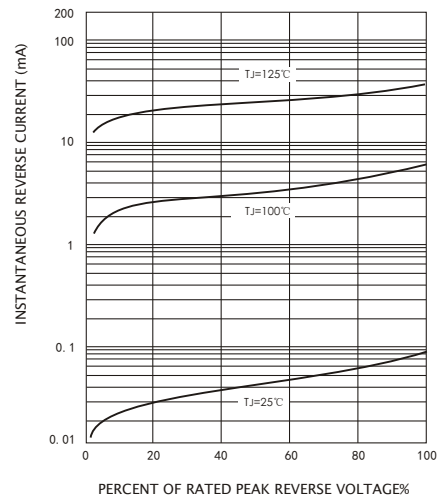
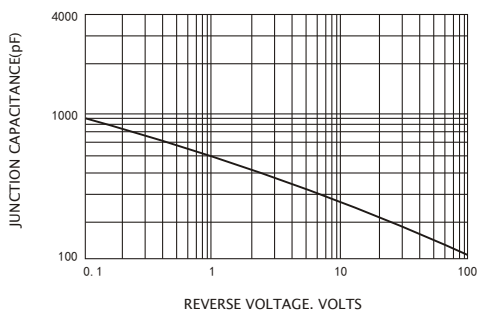


FIG.5-TYPICAL JUNCTION CAPACITANCE



### 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.