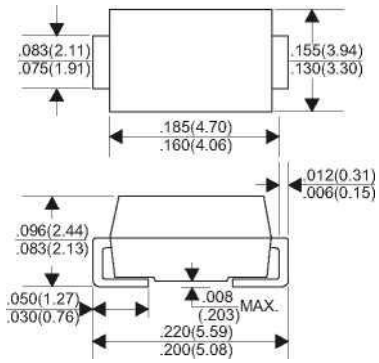
VOLTAGE RANGE
100 Volts
CURRENT
5.0 Amperes

## FEATURES

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

**DO-214AA(SMB)**




Dimensions in inches and (millimeters)

## 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

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | SS510L | UNITS |
|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | 100 | V |
| Maximum RMS Voltage | 70 | V |
| Maximum DC Blocking Voltage | 100 | 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 | 0.67 | V |
| Maximum DC Reverse Current Ta=25°C | 0.1 | mA |
| at Rated DC Blocking Voltage Ta=125C | 20 | mA |
| Typical Junction Capacitance (Note1) | 370 | pF |
| Typical Thermal Resistance R JA (Note 2) | 70 | *C/W |
| Operating Temperature Range $T_J$ | -55 —125 | °C |
| Storage Temperature Range $T_{STG}$ | -55 —150 | °C |

**NOTES:**

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Unit mounted on PC boord with 5.0mmX 5.0 mm (0.013 mm thick) copper pods os heot sink

# RATING AND VHARACTERISTIC CURVES(SS510L)

FIG.1-FORWARD CURRENT DERATING CURVE

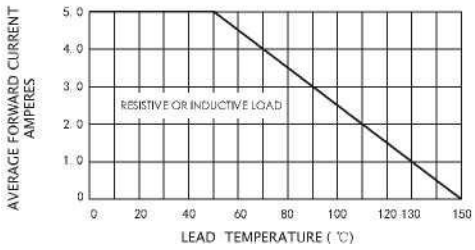



FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

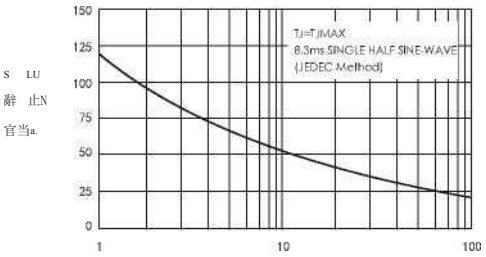



FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

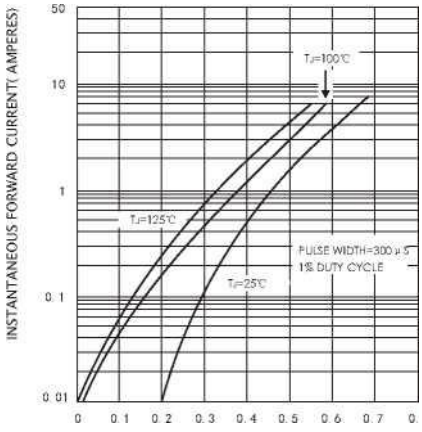



FIG.4-TYPICAL REVERSE CHARACTERISTICS

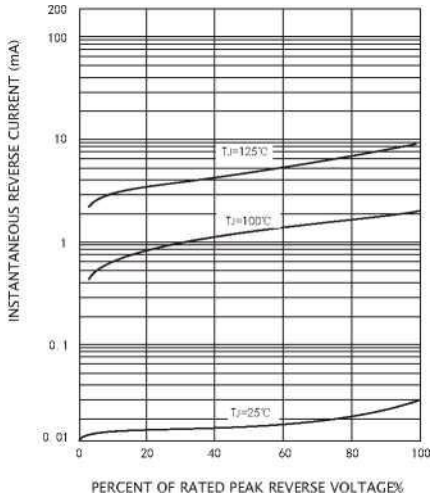



FIG.5-TYPICAL JUNCTION CAPACITANCE