GOODWORK

# SSL34F

## 3.0 AMP SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
40 Volts
CURRENT
3.0 Amperes

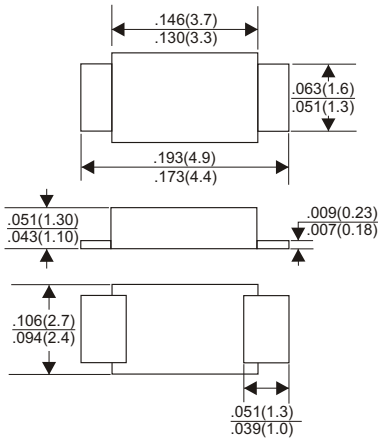
## FEATURES

* 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

**SMAF**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

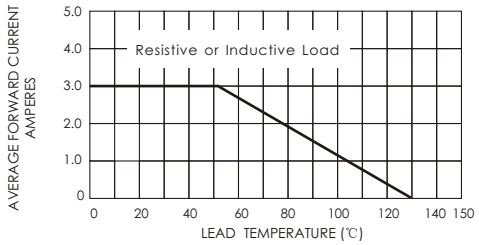
| TYPE NUMBER | SSL34F | UNITS |
|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | 40 | V |
| Maximum RMS Voltage | 28 | V |
| Maximum DC Blocking Voltage | 40 | V |
| Maximum Average Forward Rectified Current See Fig. 1 | 3.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 80 | A |
| Maximum Instantaneous Forward Voltage at 3.0A | 0.46 | V |
| Maximum DC Reverse Current Ta=25°C | 200 | μA |
| at Rated DC Blocking Voltage Ta=125℃ | 30 | mA |
| Typical Junction Capacitance (Note1) | 240 | pF |
| Typical Thermal Resistance R JL (Note 2) | 28 | °C/W |
| Operating Temperature Range $T_J$ | -55 to +125 | °C |
| Storage Temperature Range $T_{STG}$ | -55 to +150 | °C |

**NOTES:**

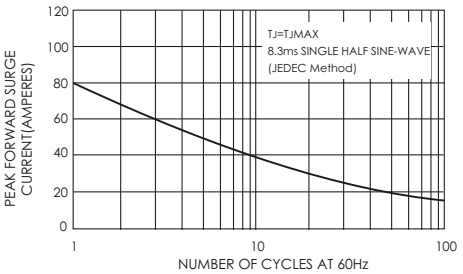
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

# RATING AND VHARACTERISTIC CURVES(SSL34F)

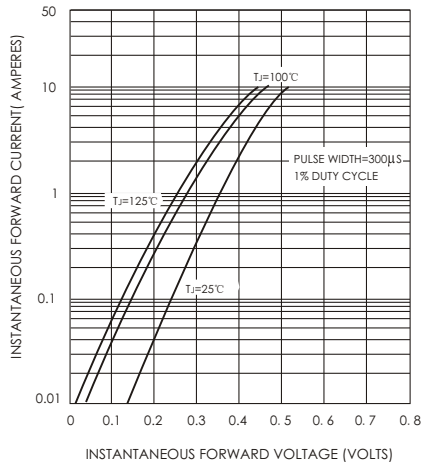
## FIG.1-FORWARD CURRENT DERATING CURVE



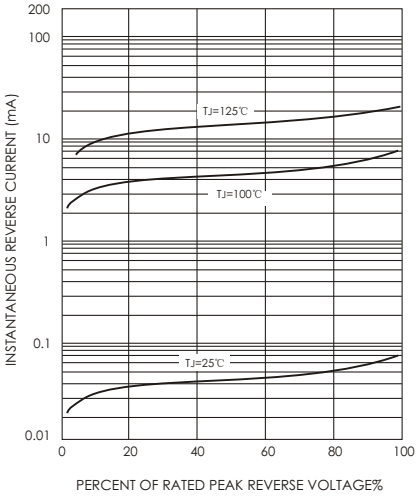

## FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT




## FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS




## FIG.4-TYPICAL REVERSE CHARACTERISTICS




## FIG.5-TYPICAL JUNCTION CAPACITANCE