

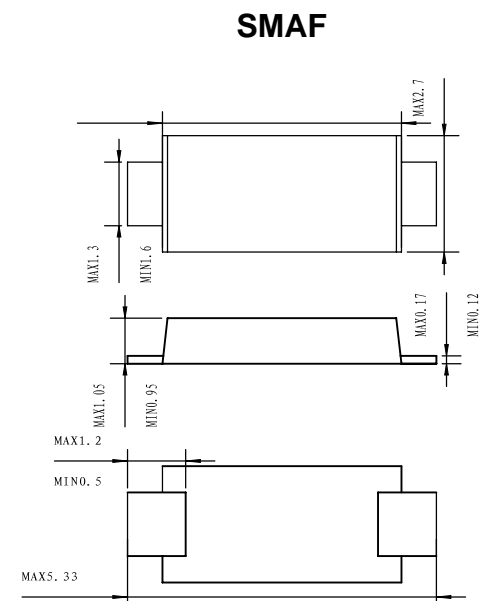


## Features

- ✧ For surface mounted application
- ✧ Metal to silicon rectifier, majority carrier conduction
- ✧ Low forward voltage drop
- ✧ Easy pick and place
- ✧ High surge current capability
- ✧ High temperature soldering:  
260°C/10 seconds at terminals

## Mechanical Data

- ✧ Case: Molded plastic
- ✧ Polarity: Indicated by cathode band
- ✧ Weight: 0.064 grams

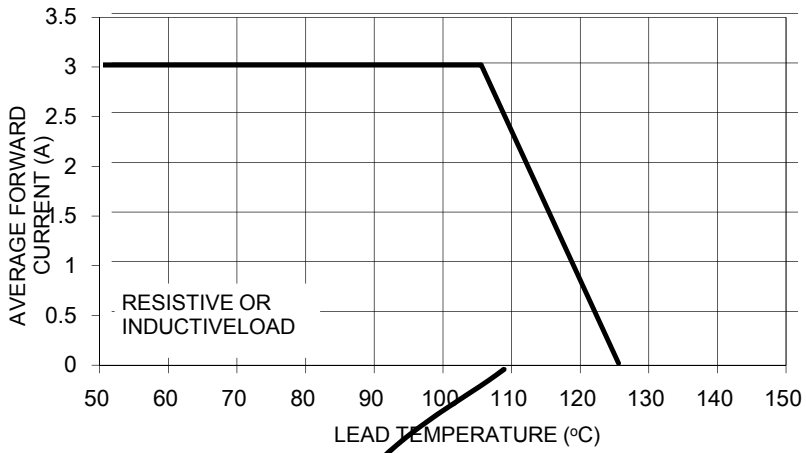
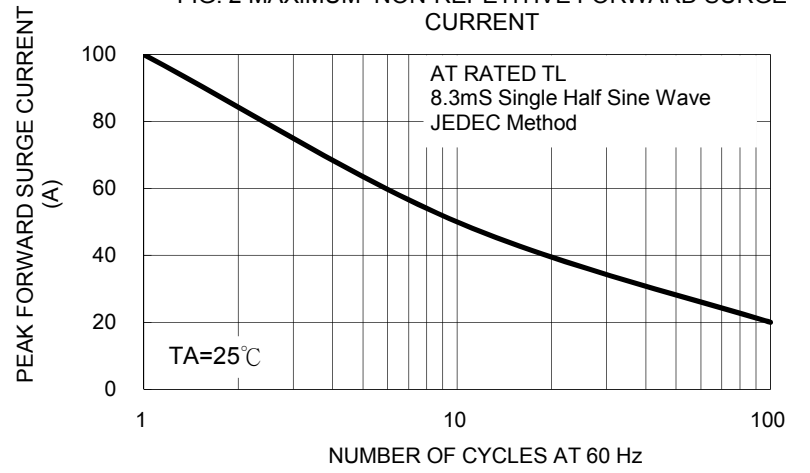
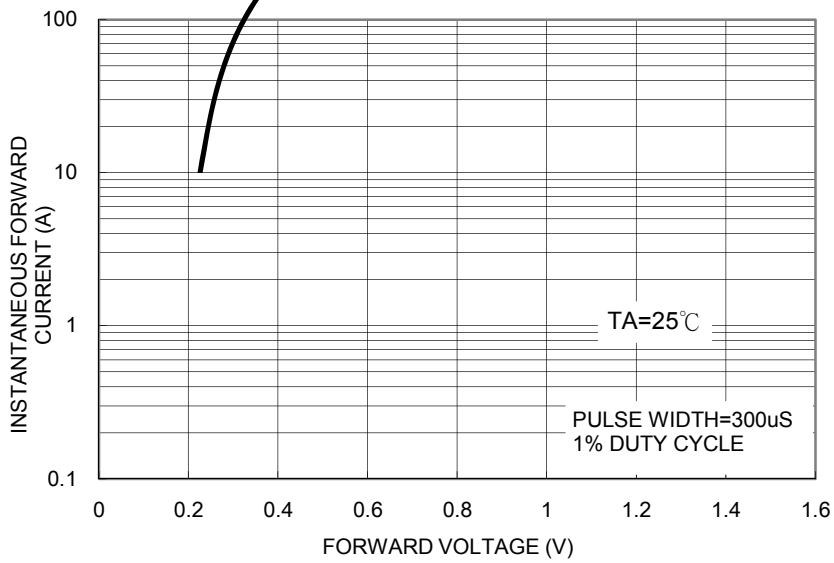
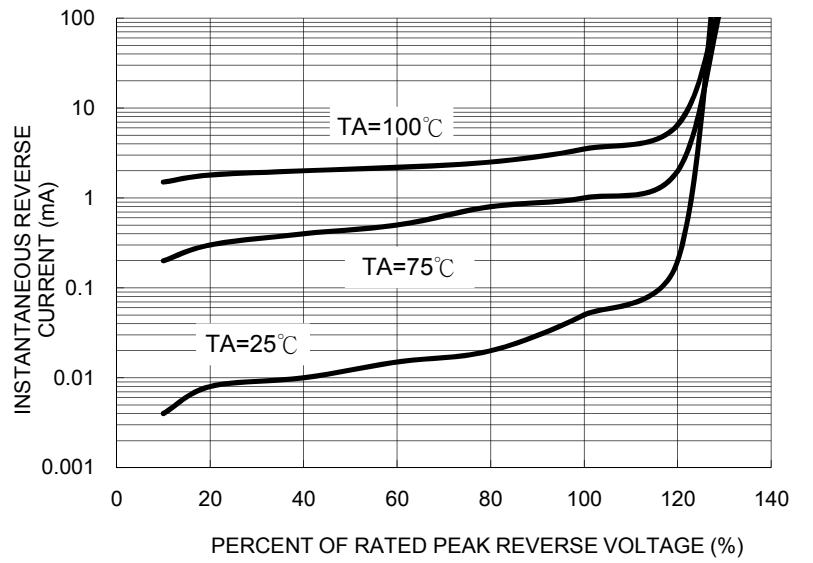


## Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	SS34L	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Maximum RMS Voltage	$V_{RMS}$	28	V
Maximum DC Blocking Voltage	$V_{DC}$	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load	$I_{FSM}$	100	A
Maximum Instantaneous Forward Voltage (Note 1) @ 3 A	$V_F$	0.41	V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^{\circ}\text{C}$ $T_A=100\text{ }^{\circ}\text{C}$	$I_R$	0.5	mA
		100	
Typical Thermal Resistance	$R_{\theta JL}$	17	$^{\circ}\text{C/W}$
	$R_{\theta JA}$	55	
Marking Code		SS34L	
Operating Temperature Range	$T_J$	- 55 to + 125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	- 55 to + 150	o

Note 1: Pluse Test with PW=300 usec, 1% Duty Cycle

**RATINGS AND CHARACTERISTIC CURVES (SS34L)**
**FIG.1 FORWARD CURRENT DERATING CURVE**

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

**FIG. 3 TYPICAL FORWARD CHARACTERISTICS**

**FIG. 4 TYPICAL REVERSE CHARACTERISTICS**

**FIG. 5 TYPICAL JUNCTION CAPACITANCE**
