

# SS34L

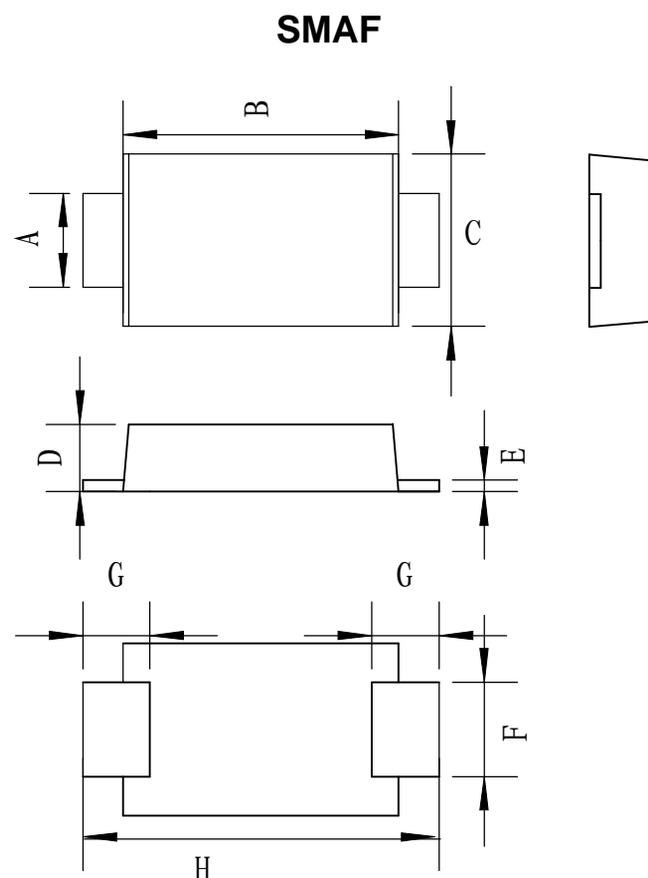
## Features

- ✧ 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

DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.30	1.60	0.051	0.063
B	3.80	4.20	0.149	0.165
C	2.30	2.70	0.090	0.106
D	0.95	1.05	0.037	0.041
E	0.12	0.17	0.004	0.006
F	1.20	1.60	0.047	0.063
G	0.60	1.20	0.024	0.047
H	4.95	5.33	0.195	0.211



## 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	$I_{F(AV)}$	3.0	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) @ 3.0 A	$V_F$	0.41	V
Maximum Reverse Current @ Rated VR $T_A=25\text{ }^\circ\text{C}$ $T_A=100\text{ }^\circ\text{C}$	$I_R$	1.0	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	$^\circ\text{C}$

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

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## RATINGS AND CHARACTERISTIC CURVES (SS34L)

FIG.1 FORWARD CURRENT DERATING CURVE

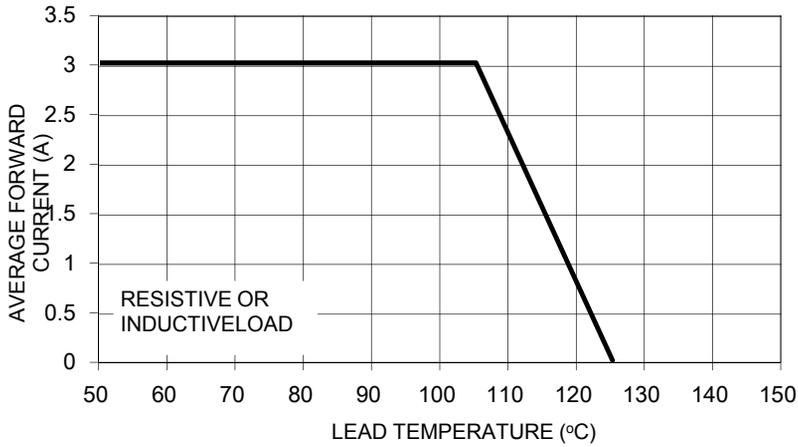


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

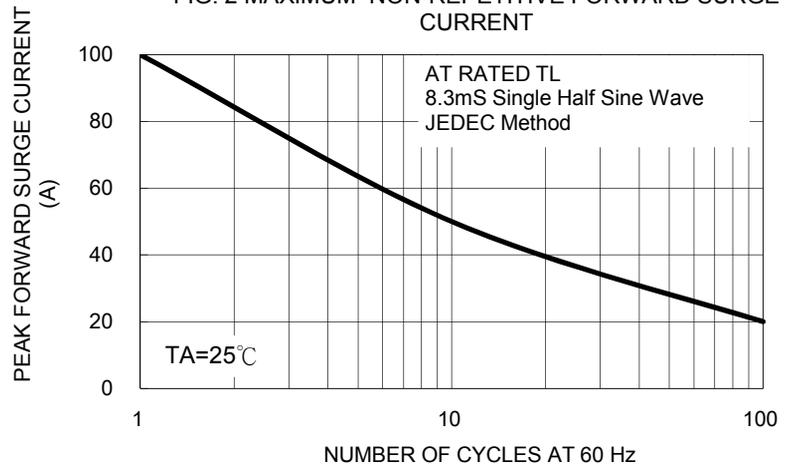


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

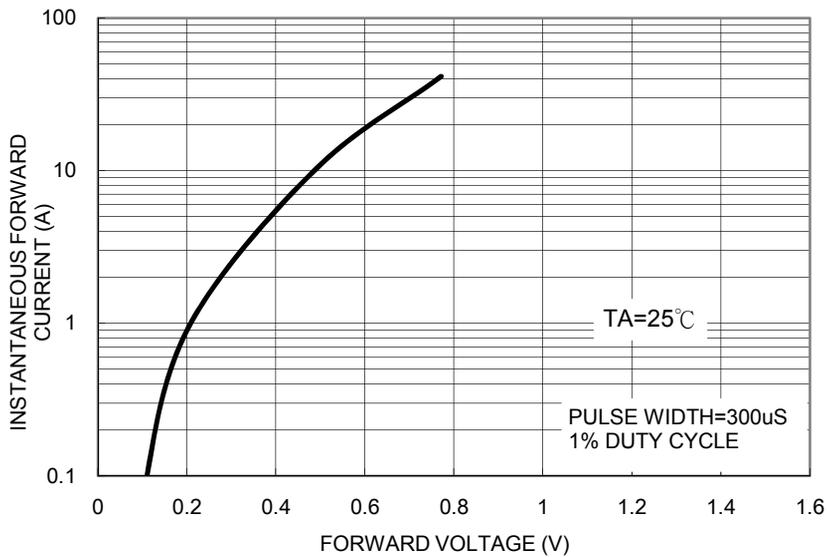


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

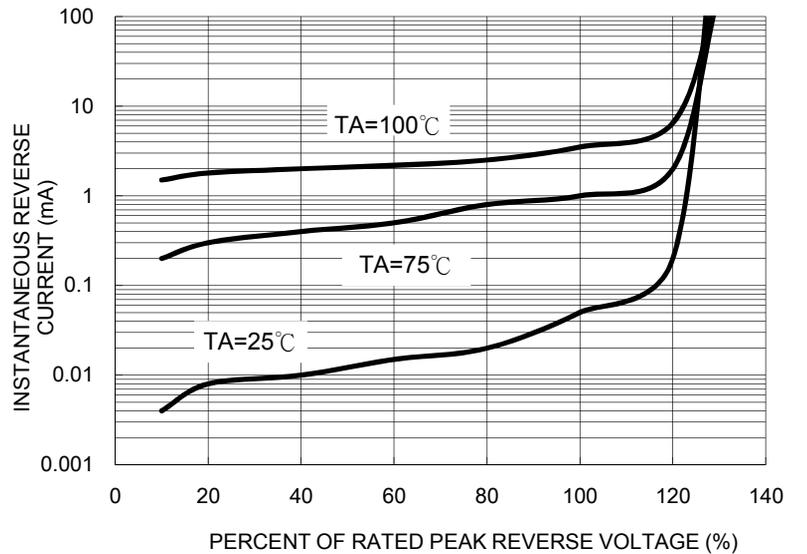


FIG. 5 TYPICAL JUNCTION CAPACITANCE

