

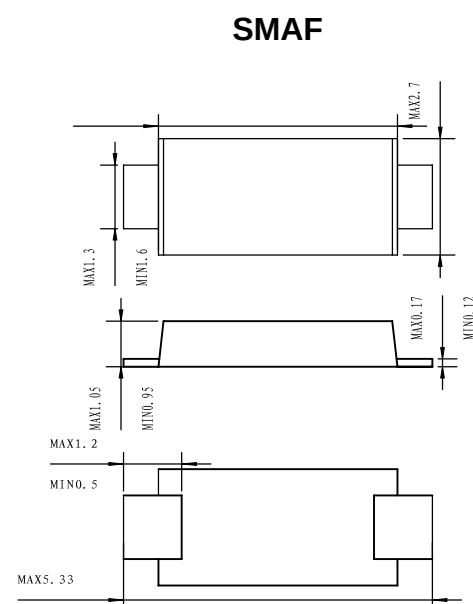


Features

- ✧ 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

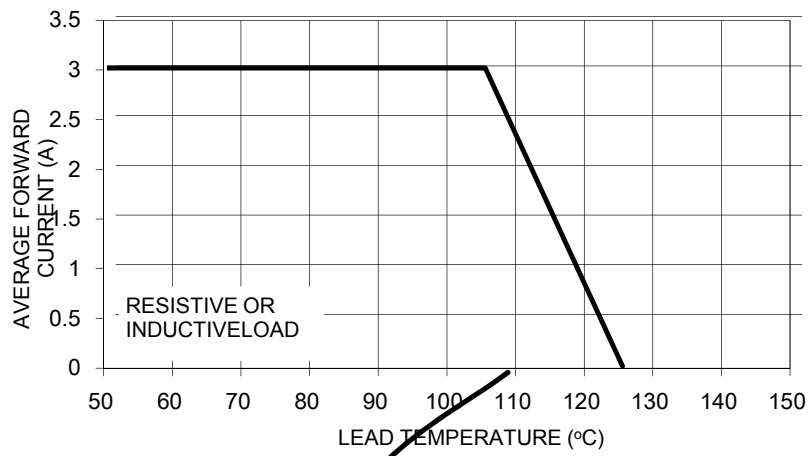


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

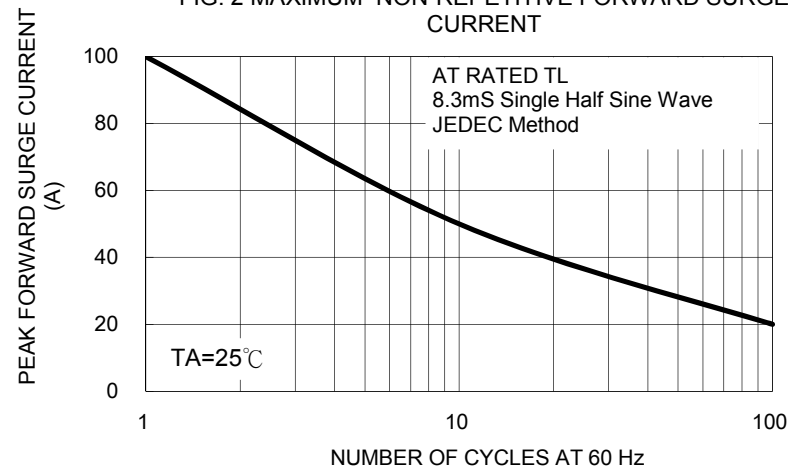


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

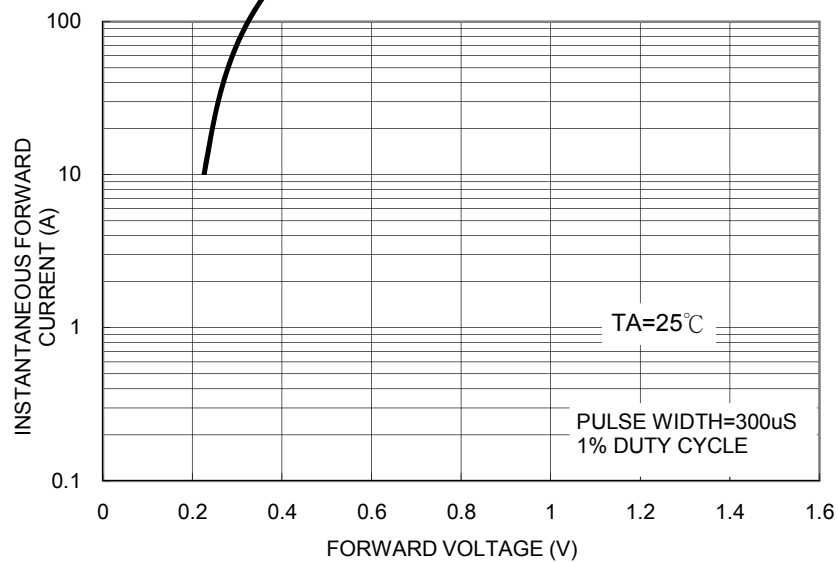


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

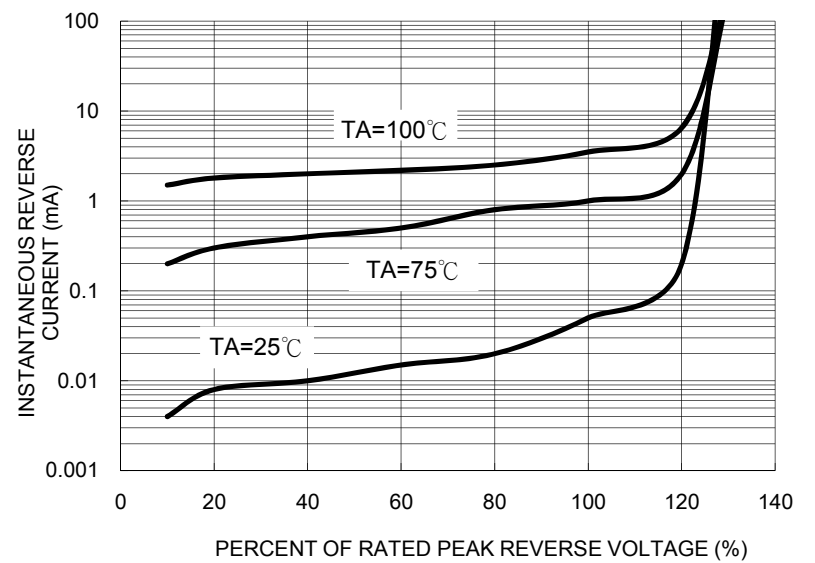


FIG. 5 TYPICAL JUNCTION CAPACITANCE

