

# SS34L THRU SS320L

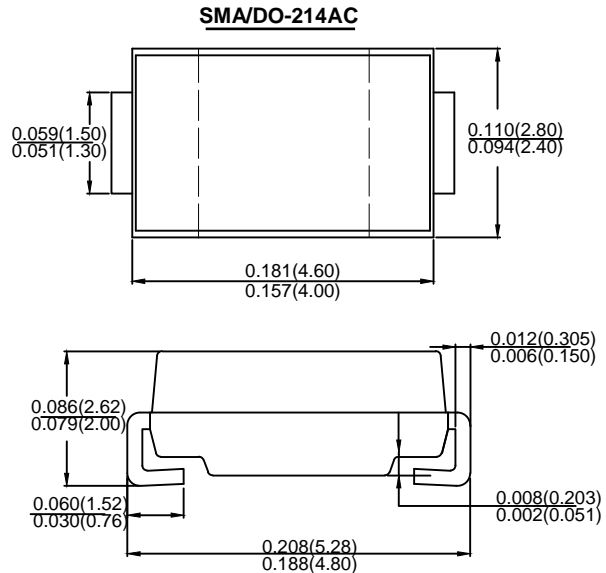
## 3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 80A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: Moeded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	SS 34L	SS 36L	SS 38L	SS 310L	SS 315L	SS 320L	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	60	80	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	80	100	150	200	V
Average Rectified Output Current @ $T_A = 90^\circ\text{C}$	$I_o$	3.0						A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80						A
Forward Voltage @ $I_F = 3.0\text{A}$ (Note1)	$V_{FM}$	0.45	0.5	0.6		0.8		V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_R$	0.1		0.05				mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		10		5				
Typical Junction Capacitance	$C_J$	28.0						pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	88						$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	-55 to +150						$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150						$^\circ\text{C}$

Note: 1. Pulse Test with  $PW = 300\mu\text{sec}$ , 1% Duty Cycle.

2. Mounted on P.C. Board with  $5.0\text{ mm}^2$  (0.13mm thick) copper pad areas.

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Fig. 1 Forward Current Derating Curve

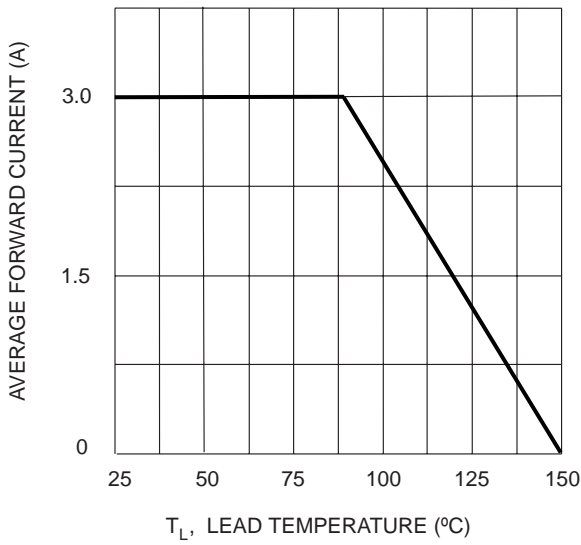


Fig. 2 Typ. Forward Characteristics

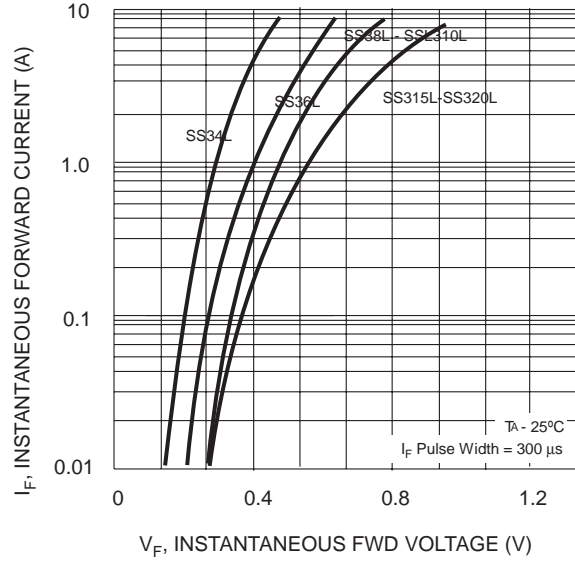


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

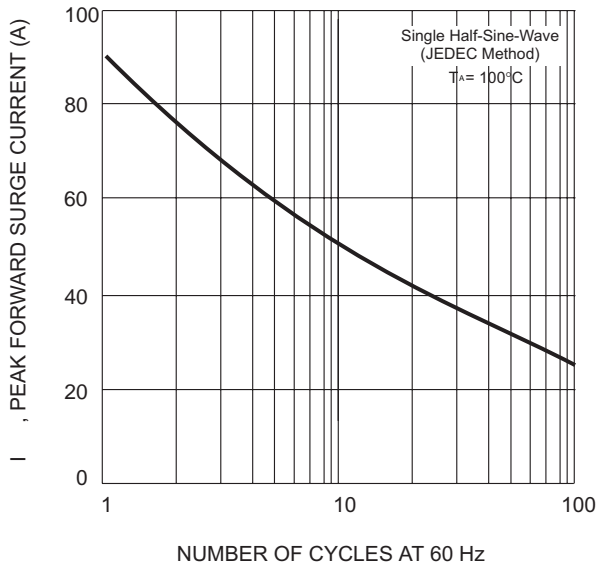


Fig. 4 Typical Reverse Characteristics (per element)

