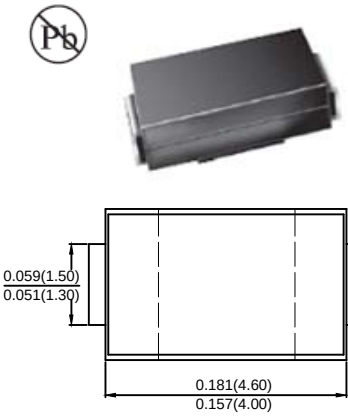
SS34L~SS3200L

Surface Mount Low VF Schottky Rectifiers

Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
  260℃/10 seconds at terminals
- Component in accordance to
  RoHS 2002/95/1 and WEEE 2002/96/EC

SMA/DO-214AC



Dimensions in inches and (millimeters)

Mechanical Date

- **Case:** JEDEC DO-214AC (SMA) molded plastic
- **Terminals:** Solder plated, solderable per J-STD-002B and JESD22-B102D
- **Polarity:** Laser band denotes cathode end

Maximum Ratings & Thermal Characteristics

(T_A = 25 °C unless otherwise noted)

Type Number	SYMBOL	SS 34L	SS 35L	SS 36L	SS 38L	SS 310L	SS 3150L	SS 3200L	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	50	60	80	100	150	200	V
Average Rectified Output Current @T_L =100℃	IF(AV)	3.0							A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80							A
Rating for fusing (t<8.3ms)	I^2t	26.56							A^2s
Forward Voltage @IF=3.0A (Note1)	V_{FM}	0.45		0.55		0.75		0.85	V
Peak Reverse Current @T_A =25℃	I_R	0.1			0.05				mA
At Rated DC Blocking Voltage @T_A =100℃		10			5				
Typical Junction Capacitance	C_J	28.0							pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JL}$	88							℃/W
Operating Temperature Range	T_J	-55 to+150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note: 1.Pulse Test with PW=300usec,1%Duty Cycle.
2.Mounted on P.C.Board with 5.0 mm²（0.13mm thick）copper pad areas.

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig. 1 Forward Current Derating Curve

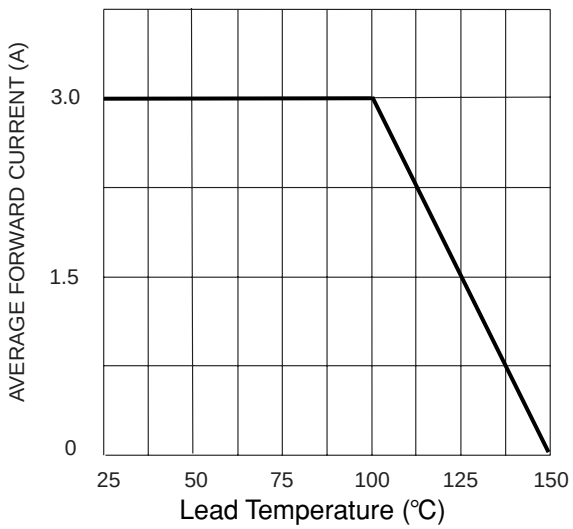


Fig. 2 Typ. Forward Characteristics

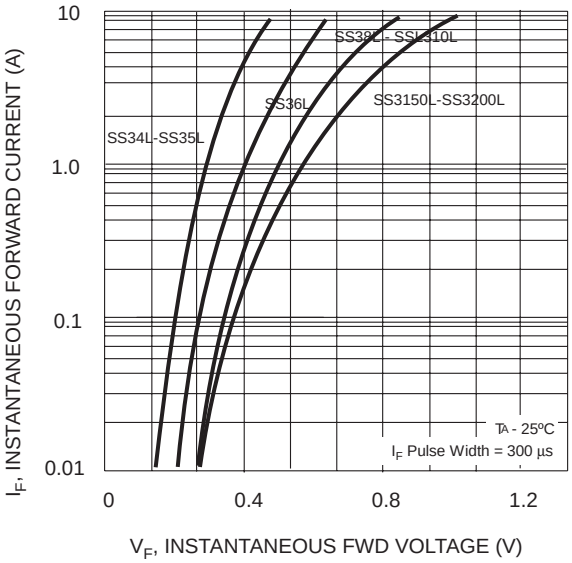


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

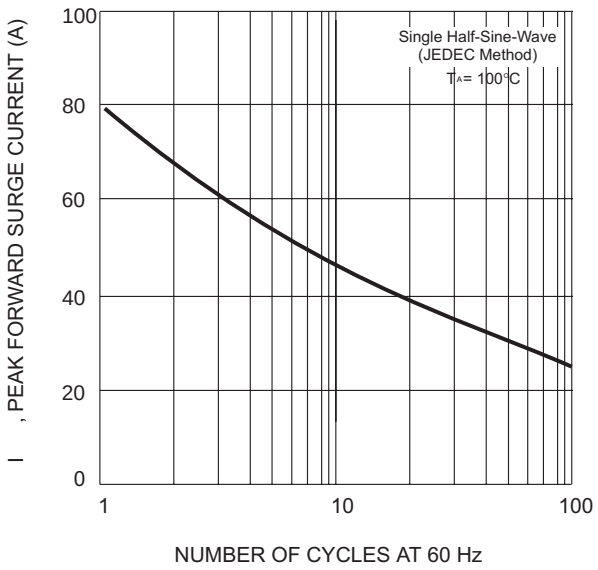
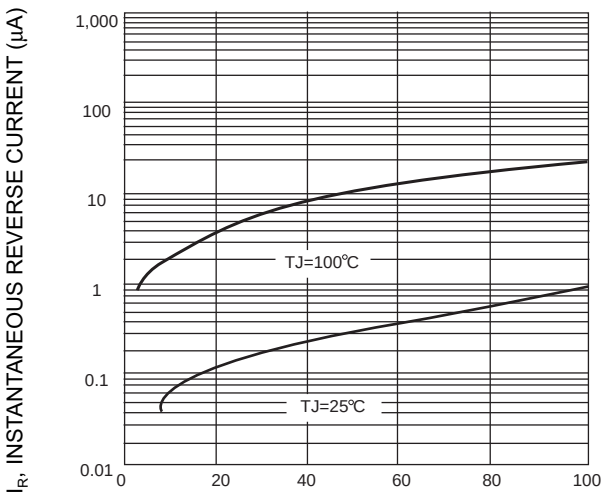


Fig. 4 T ypical Reverse Characteristics (per element)



SMA PAD LAYOUT

