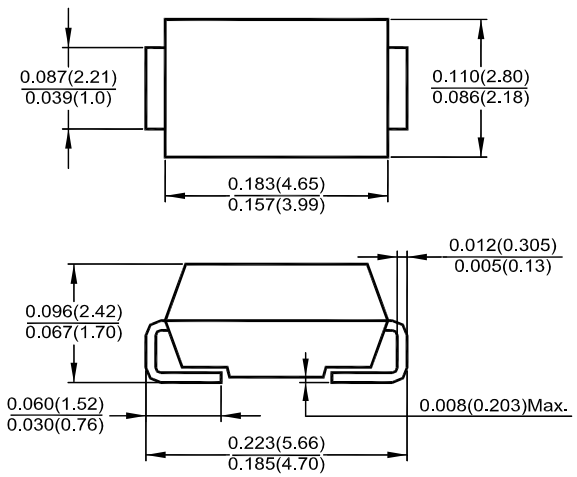
SSL34A

Surface Mount Schottky Barrier Rectifiers
Reverse Voltage - 40 V
Forward Current - 3 A

Features
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency.
- High current capability, low forward voltage drop

SMA (DO-214AC)



Dimensions in inches and (millimeters)

Mechanical Data
- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end

Maximum Ratings and Electrical Characteristics
Ratings at 25℃ ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SSL34A	Units
	Marking	SSL34A	-
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 at T_L = 100 °C	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80	A
Maximum Forward Voltage [1] at I_F = 3 A, T_J = 25 °C	V_F	0.45	V
Maximum Forward Voltage [1] at I_F = 3 A, T_J = 125 °C	V_F	0.37	V
Maximum DC Reverse Current at Rated DC Blocking Voltage, T_J = 25 °C	I_R	500	μA
Maximum DC Reverse Current at Rated DC Blocking Voltage, T_J = 125 °C	I_R	100	mA
Typical Thermal Resistance, Junction to Lead	$R_{\theta JL}$	10	°C/W
Typical Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	70	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	℃

[1] Pulse Test With Pulse Width = 300μs, 1% Duty Cycle.

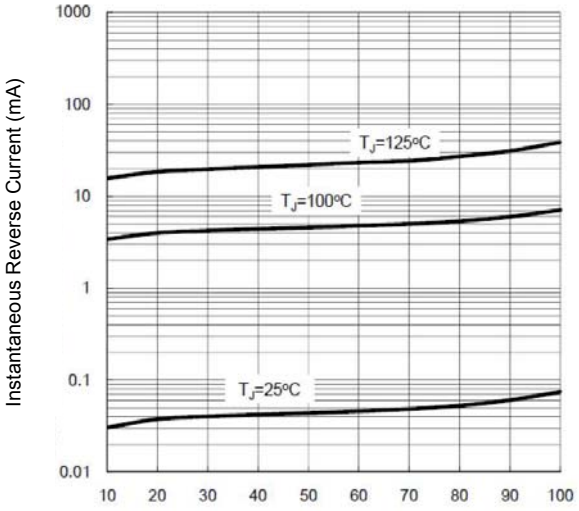


Figure 1.Typical Reverse Characteristics
Percent Of Rated Peak Reverse Voltage (%)

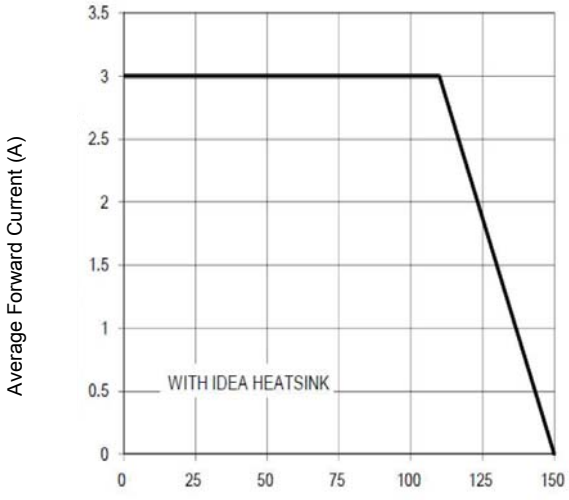


Figure 2.Forward Current Derating Curve
Lead Temperature (˚C)

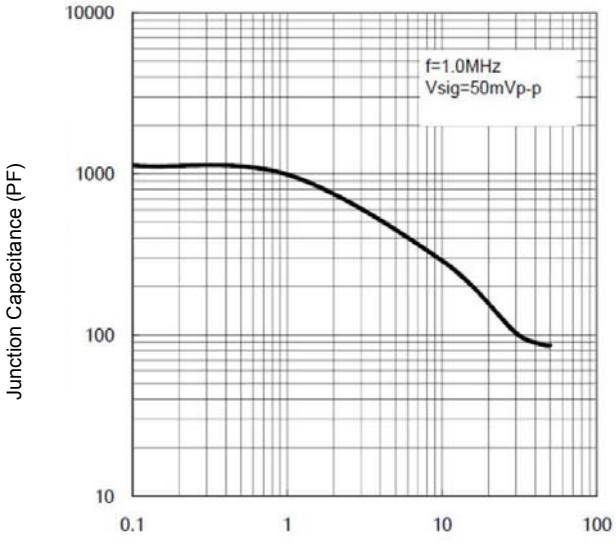


Figure 3. Typical Junction Capacitance
Reverse Voltage (V)

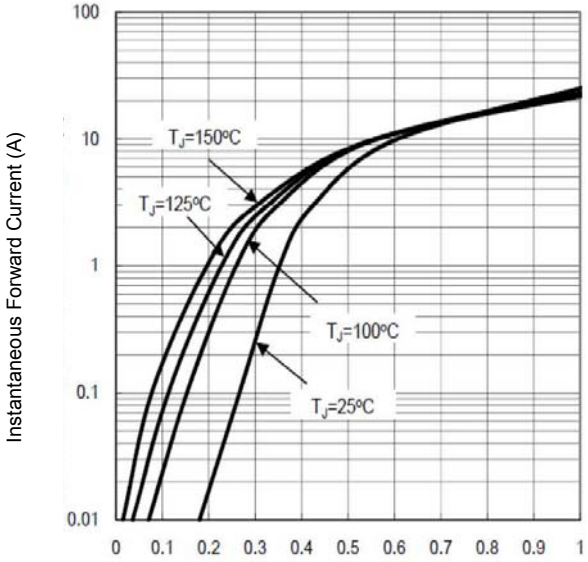


Figure 4. Typical Forward Characteristics
Forward Voltage (V)