

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

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°C ambient temperature unless otherwise specified. Single phase, half wave 60Hz, resistive or inductive load, for capacitive load, derate by 20 %

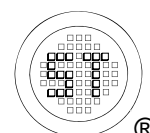
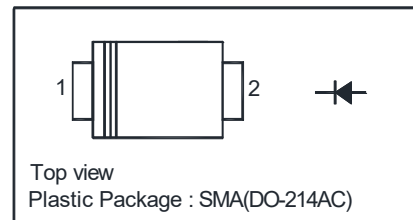
Parameter	Symbols	SSL34A	Units
	Marking	SSL34A	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current at $T_c = 100^\circ\text{C}$	$I_{F(AV)}$	3	A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80	A
Maximum Forward Voltage at 3 A	V_F	0.45	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.3 5	mA
Typical Junction Capacitance ¹⁾	C_j	450	pF
Typical Thermal Resistance, Junction to Ambient ²⁾	$R_{\theta JA}$	60	°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150	°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Electrical Characteristics Curves

Fig.1 Forward Current Derating Curve

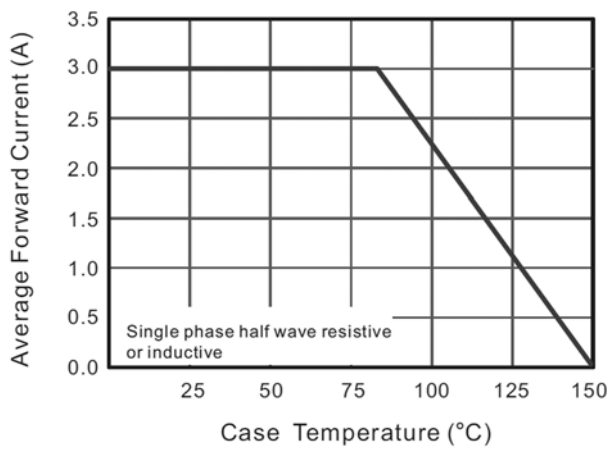


Fig.2 Typical Reverse Characteristics

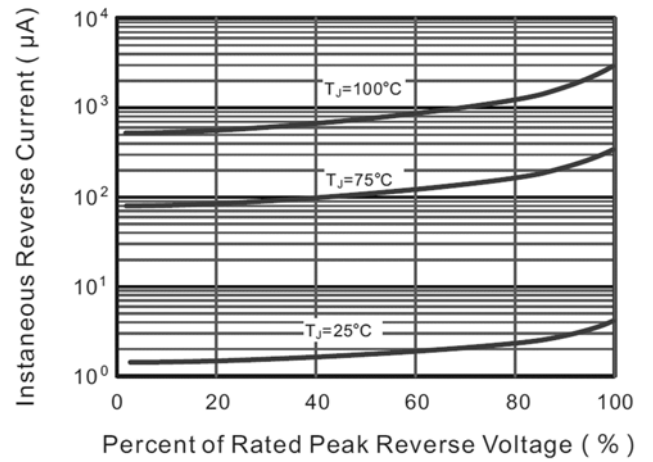


Fig.3 Typical Forward Characteristic

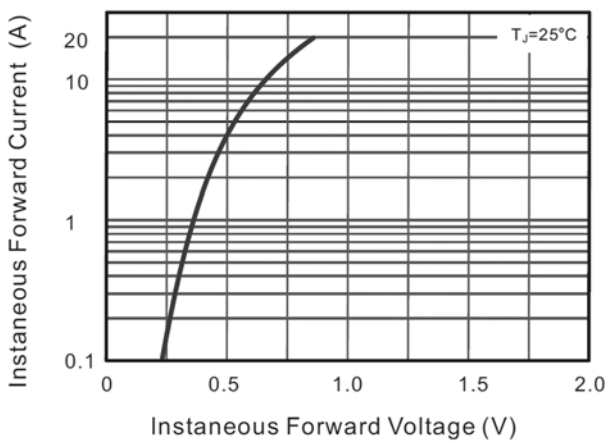


Fig.4 Typical Junction Capacitance

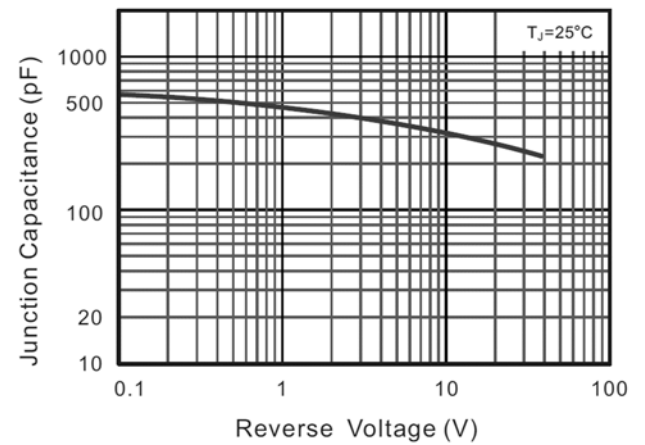


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

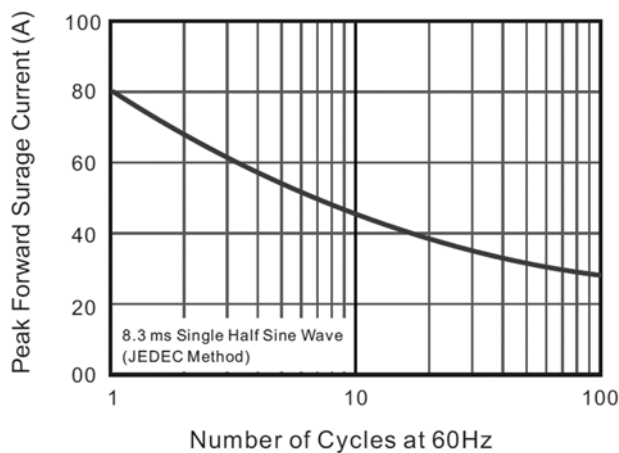
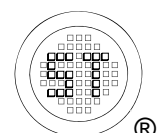
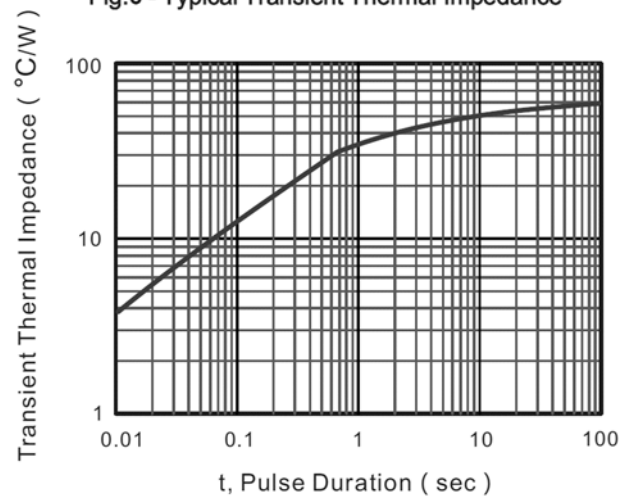


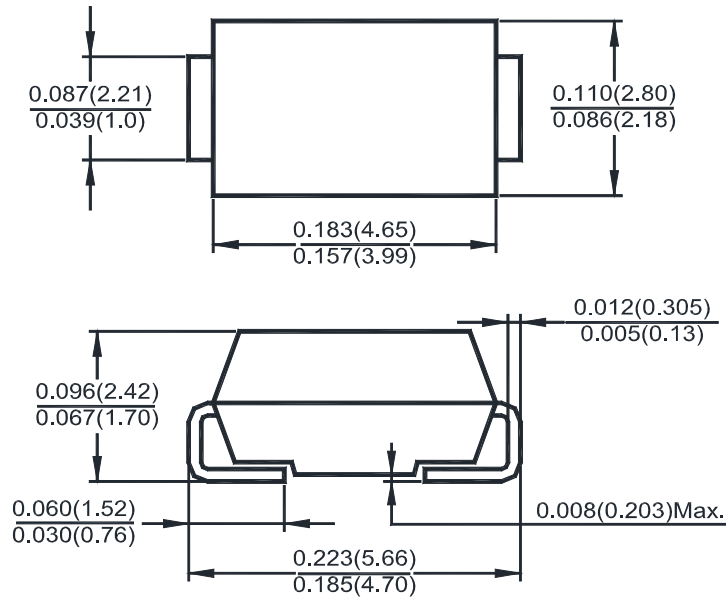
Fig.6 - Typical Transient Thermal Impedance



SSL34A

Package Outline Dimensions in inches (millimeters)

SMA(DO-214AC)



Marking information

" ***** " = Part No.

" III " = Cathode line

Font type: Arial

