

SSL34AT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features and Benefits:

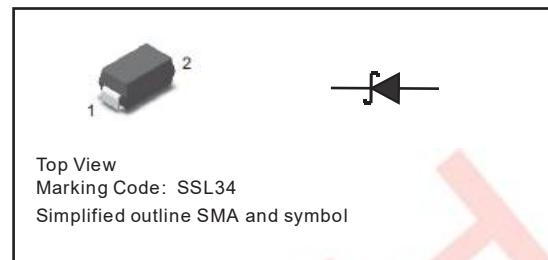
- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- ◆ Case: SMA
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

PARAMETER	SYMBOL	SSL34AT	Units
Maximum Recurrent 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 @T _c =100°C	I _{F(AV)}	3	A
Peak Forward Surge Current, 8.3m Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80	A
Maximum Instantaneous Forward Voltage at 3 A	V _F	0.45	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100°C	I _R	0.3 5	mA
Typical Junction Capacitance @f=1MHz, 4V DC	C _j	450	pF
Maximum Thermal Resistance Junction To Case(per leg)	R _{θJA}	60	°C/W
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Operation Junction Temperature and Storage Temperature	T _{stg}	-55 ~ +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.

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

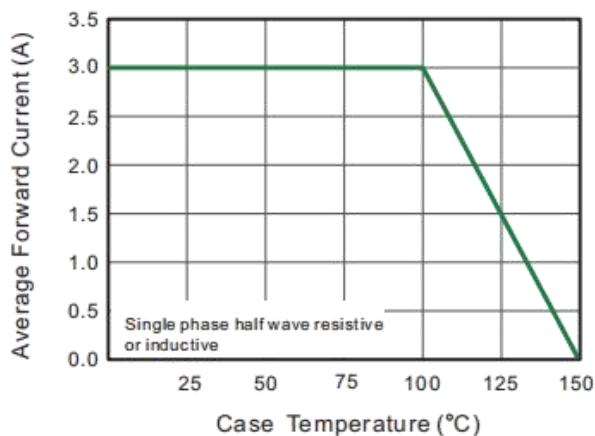


Fig.2 Typical Reverse Characteristics

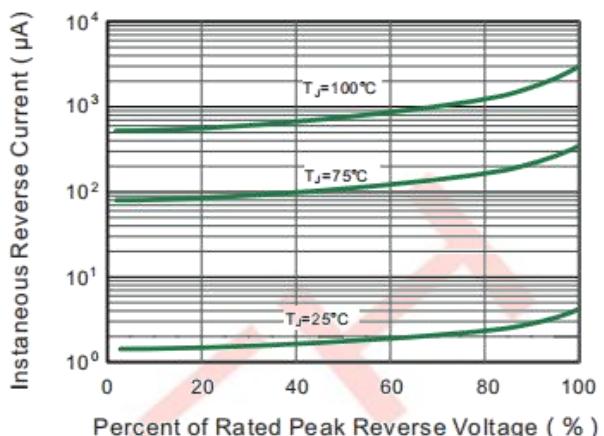


Fig.3 Typical Forward Characteristic

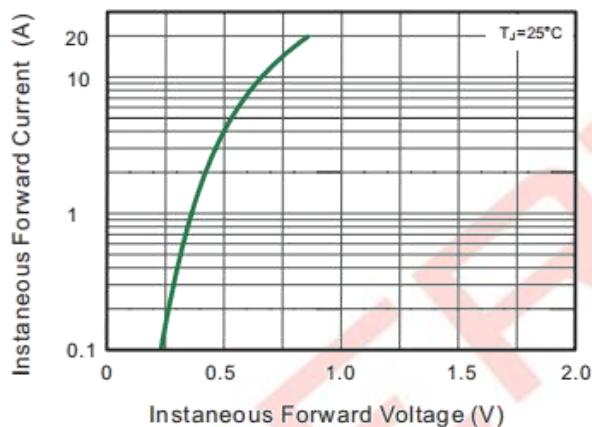


Fig.4 Typical Junction Capacitance

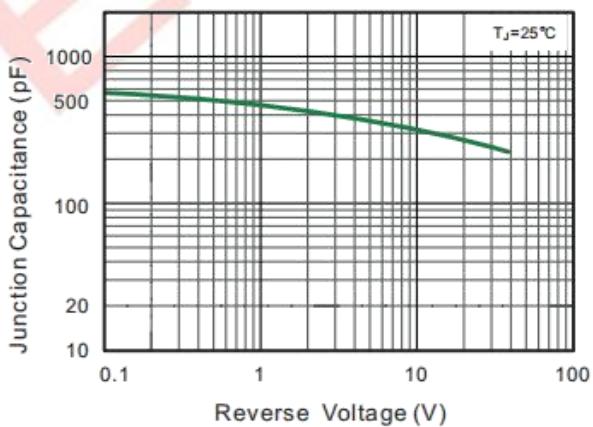


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

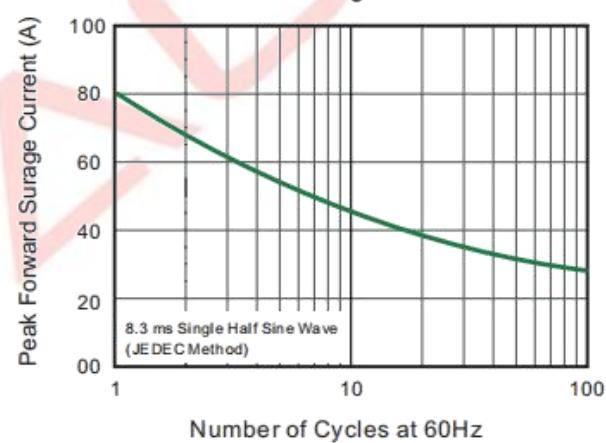
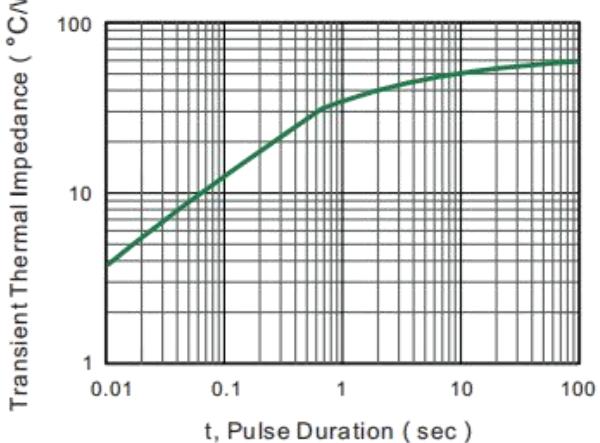
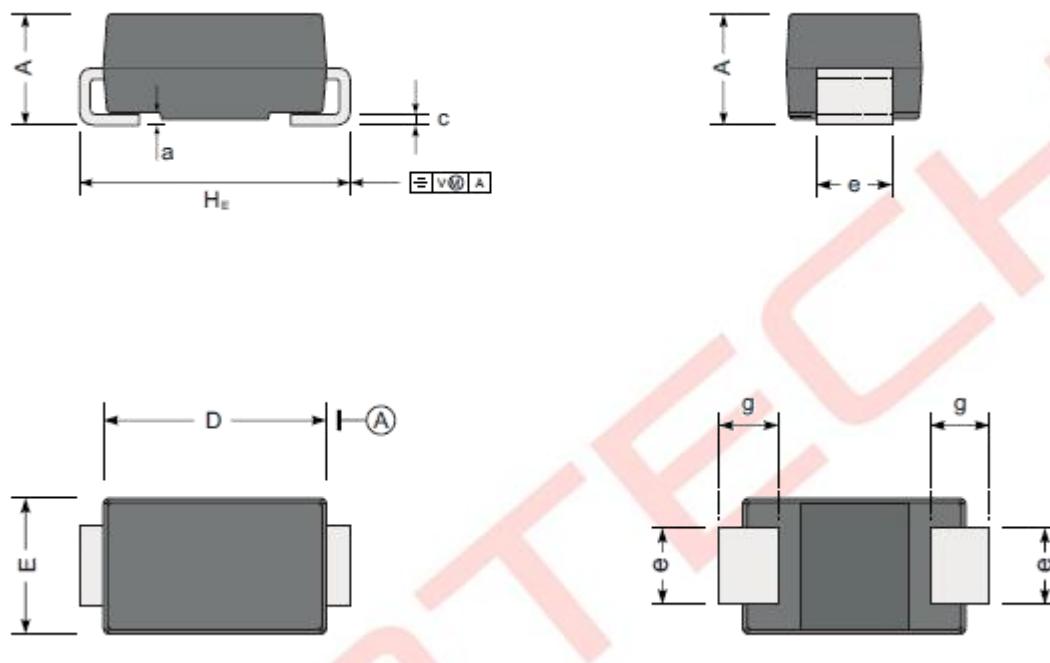


Fig.5- Typical Transient Thermal Impedance



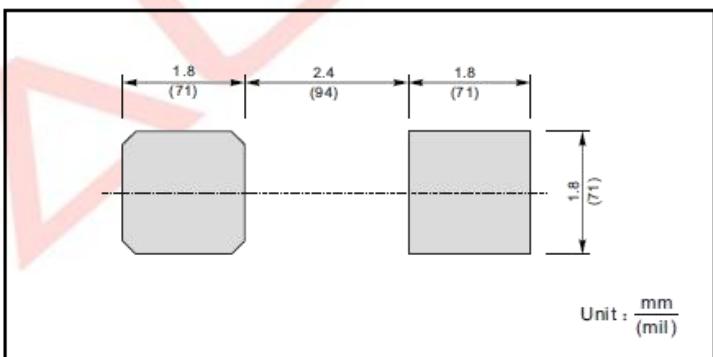
PACKAGE OUTLINE

SMA



UNIT		A	D	E	HE	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size



Marking

Type number	Marking code
SSL34AT	SSL34