

SSL54FAT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current-5.0A

Reverse Voltage-40V

FEATURES

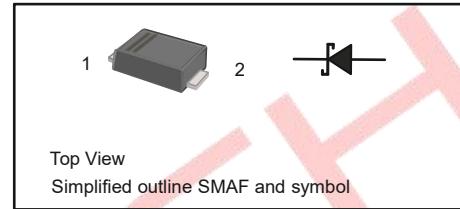
- ◆ Metal silicon junction, majority carrier conduction
- ◆ For surface mounted applications
- ◆ Low power loss, high efficiency
- ◆ High forward surge current capability
- ◆ For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- ◆ Case: SMAF
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Approx. Weight: 27mg



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

Parameter	Symbols	SSL54FAT	Units
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 $T_c = 100^\circ C$	$I_{F(AV)}$	5	A
Peak Forward Surge Current ^(Note1)	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage at 5A	V_F	0.45	V
Maximum DC Reverse Current $T_a = 25^\circ C$ at Rated DC Blocking Voltage $T_a = 100^\circ C$	I_R	1.0 50	mA
Typical Junction Capacitance ^(Note2)	C_j	800	pF
Typical Thermal Resistance ^(Note3)	$R_{\theta JA}$	45	°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

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

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

Fig.1 Forward Current Derating Curve

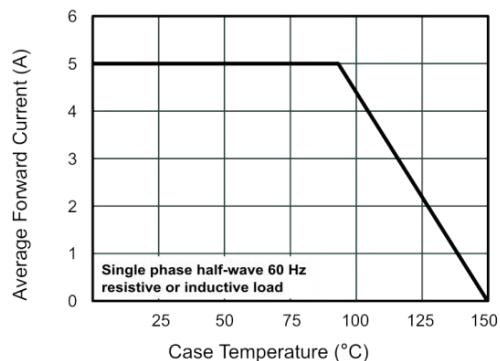


Fig.2 Typical Reverse Characteristics

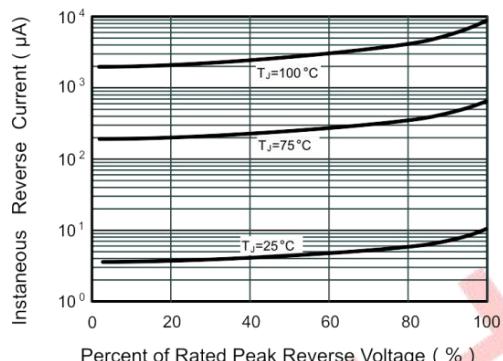


Fig.3 Typical Forward Characteristic

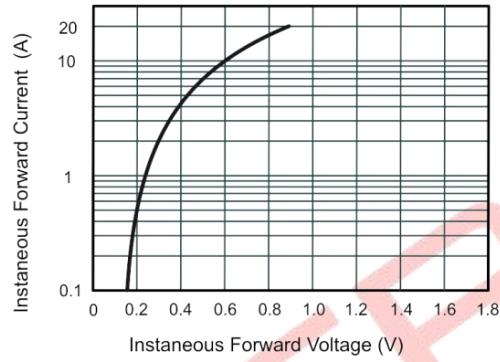


Fig.4 Typical Junction Capacitance

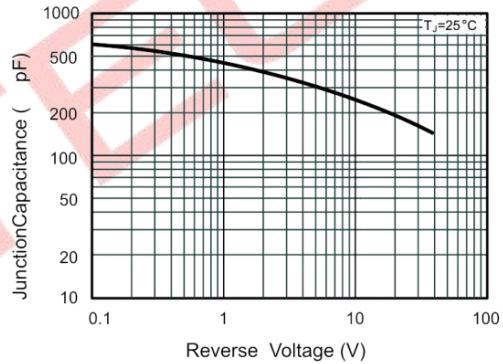


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

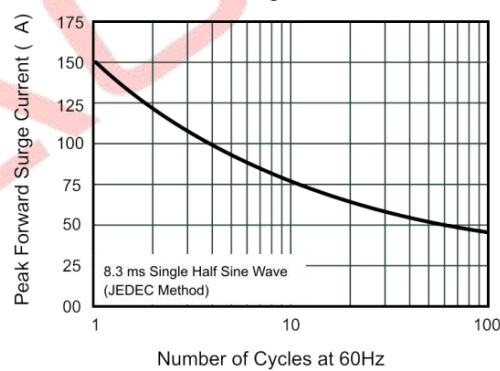
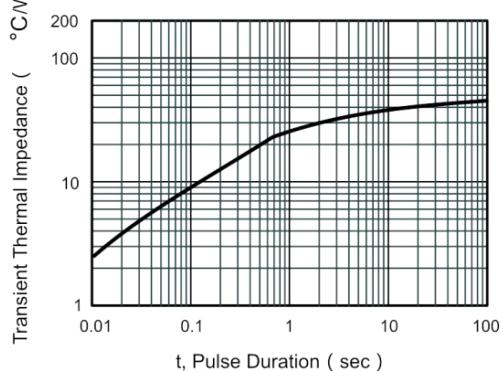


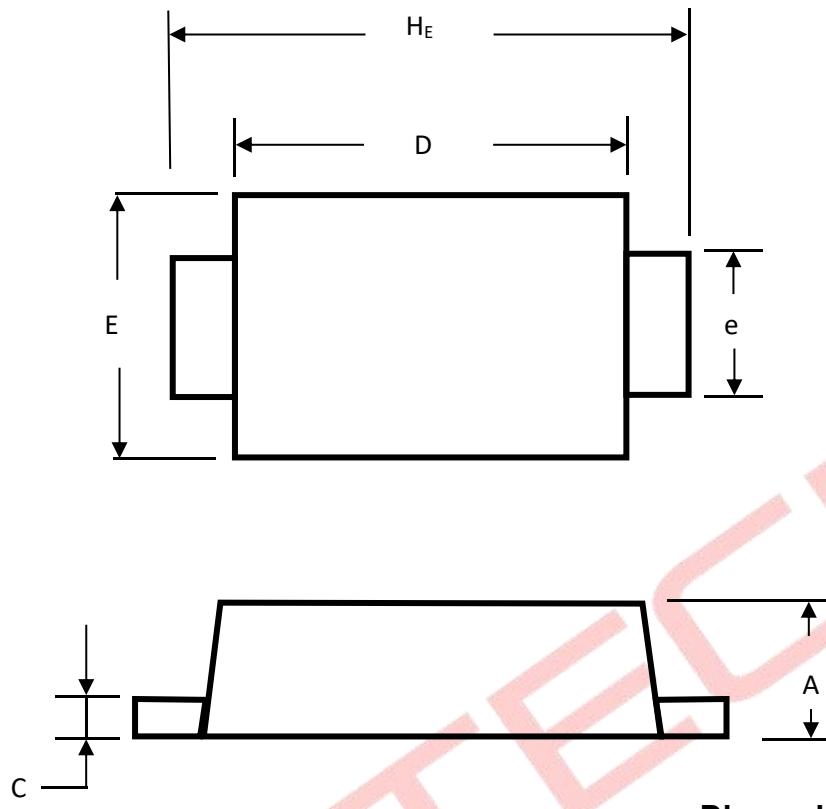
Fig.6- Typical Transient Thermal Impedance



SSL54FAT

PACKAGE OUTLINE

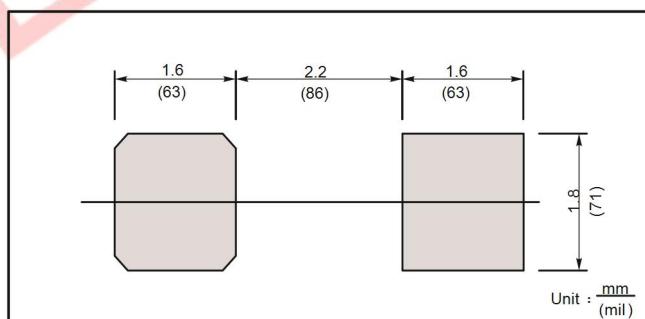
SMAF



Dimensions in millimeters

UNIT		A	C	D	E	e	g	H _E
mm	max	1.10	0.30	3.70	2.80	1.60	1.20	4.90
	min	0.90	0.18	3.30	2.40	1.30	0.80	4.40

THE RECOMMENDED MOUNTING PAD SIZE



ORDERING INFORMATION

Device	Package	Shipping
SSL54FAT	SMAF	3,000/Tape & Reel (7 inches)

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