

SB32FL-AT THRU SB320FL-AT

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Forward Current-3.0A

Reverse Voltage-20V to 200V

FEATURES

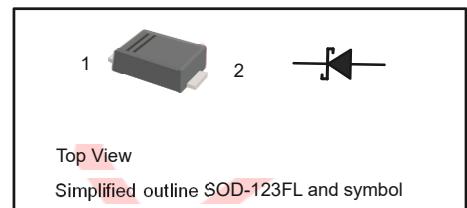
- ◆ For surface mount applications
- ◆ High forward surge current capability
- ◆ Low power loss, high efficiency
- ◆ Metal silicon junction, majority carriers conduction

MECHANICAL DATA

- ◆ Case: SOD-123FL molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.015 grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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	SYMBOL	SB32FL -AT	SB34FL -AT	SB36FL -AT	SB38FL -AT	SB310FL -AT	SB312FL -AT	SB315FL -AT	SB320FL -AT	UNIT		
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	120	150	200	V		
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	84	105	140	V		
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	120	150	200	V		
Maximum Average Forward Rectified Current at T _C =85°C	I _{F(AV)}	3.0							A			
Peak Forward Surge Current (Note1)	I _{FSM}	80			70			A				
Maximum Forward Voltage at 3.0 A	V _F	0.55		0.70		0.85		0.95		V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =100°C	I _R	0.5 10		0.3 5						mA		
Typical Junction Capacitance (Note2)	C _J	250		160						pF		
Typical Thermal Resistance (Note3)	R _{θJA}	80							°C/W			
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +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" (5 X 5 cm) copper pad areas.

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RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

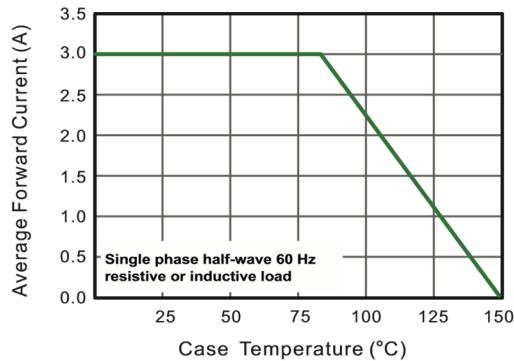


Fig.2 Typical Reverse Characteristics

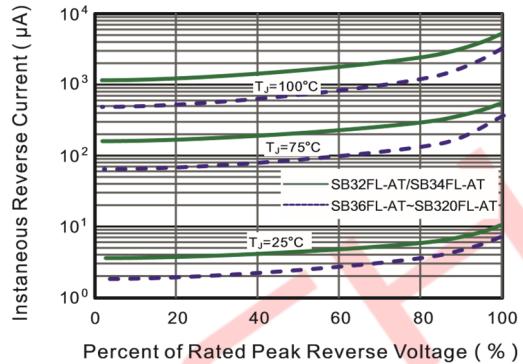


Fig.3 Typical Forward Characteristics

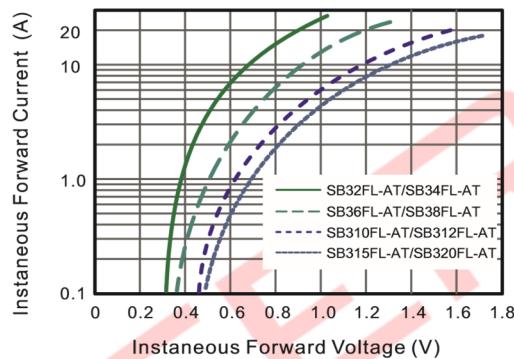


Fig.4 Typical Junction Capacitance

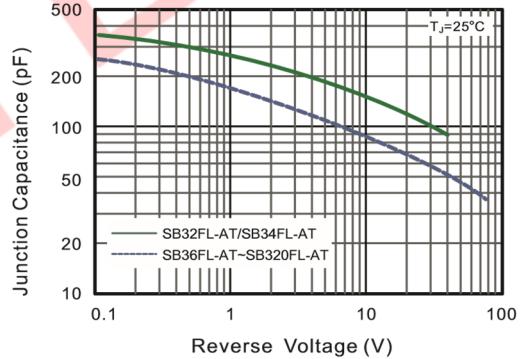


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

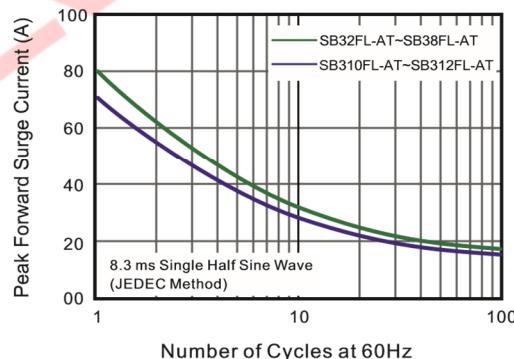
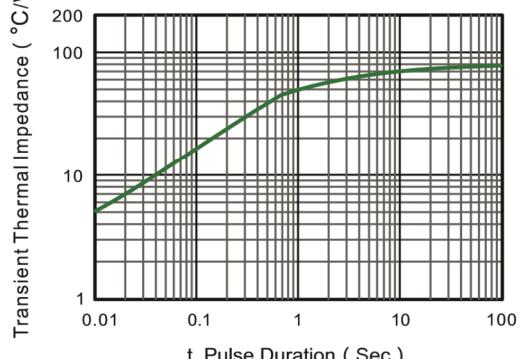


Fig.6- Typical Transient Thermal Impedance

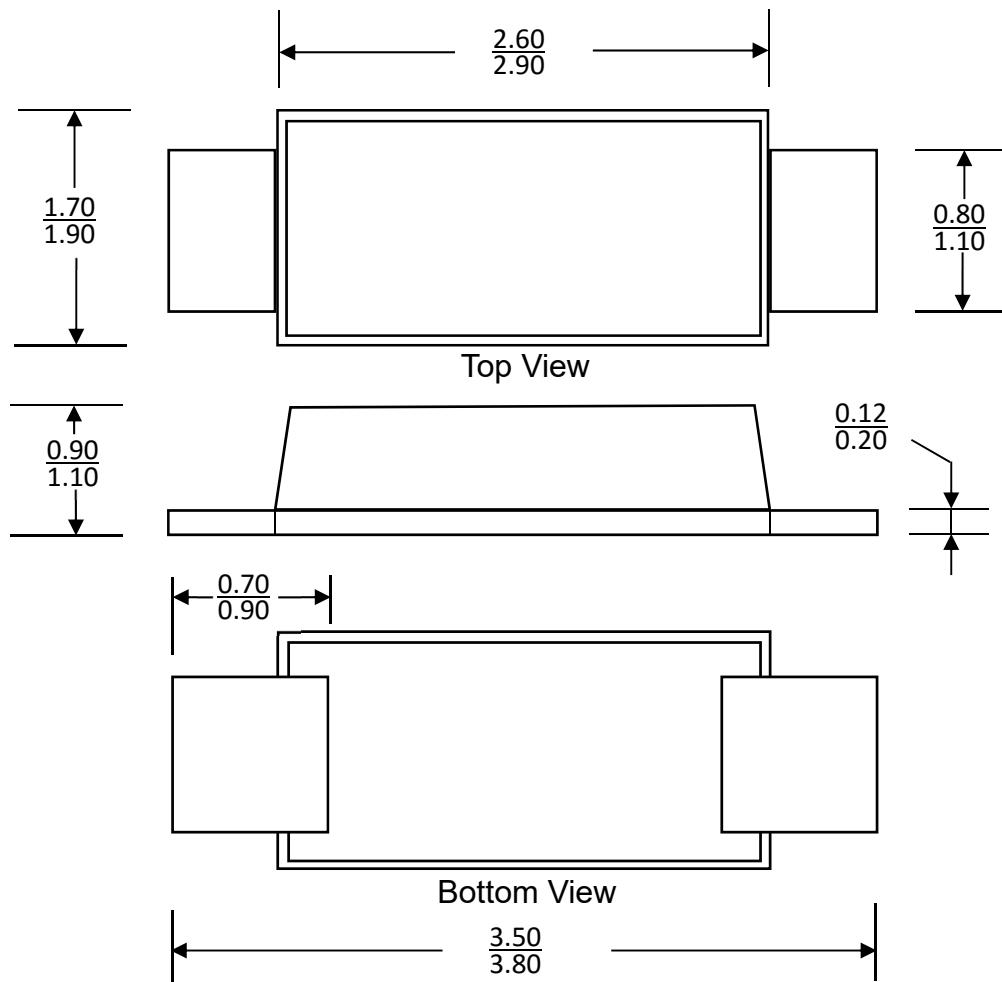


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PACKAGE OUTLINE

SOD-123FL



Dimensions in milimeters

ORDERING INFORMATION

Device	Package	Shipping
SB32FL-AT thru SB320FL-AT	SOD-123FL	3,000/Tape & Reel (7 inches)

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