



SS32F-PJ thru SSF320-PJ

Schottky Barrier Rectifier

FEATURES

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

MECHANICAL DATA

- ◆ Case: SMAF molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.027 grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: SS32~SS320
Simplified outline SMAF and symbol

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

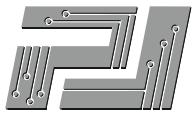
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	SS32F -PJ	SS34F -PJ	SS34AF -PJ	SS36F -PJ	SS38F -PJ	SS310F -PJ	SS312F -PJ	SS315F -PJ	SS320F -PJ	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	120	150	200	V
Maximum RMS Voltage	V _{RMS}	14	28	31.5	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current at T _C =75°C	I _{F(AV)}						3.0				A
Peak Forward Surge Current (Note1)	I _{FSM}						80				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		5			0.3		3	mA
Typical Junction Capacitance (Note2)	C _J	250					180				pF
Typical Thermal Resistance (Note3)	R _{θJA}			70							°C/W
	R _{θJC}			18							
Operating Junction Temperature Range	T _J			-55 to +125							°C
Storage Temperature Range	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.



SS32F-PJ thru SSF320-PJ

Schottky Barrier Rectifier

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

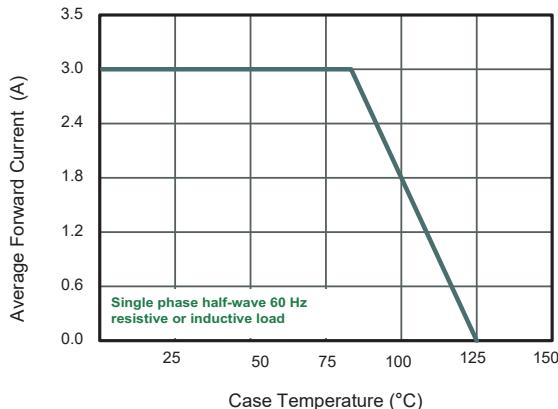


Fig.2 Typical Reverse Characteristics

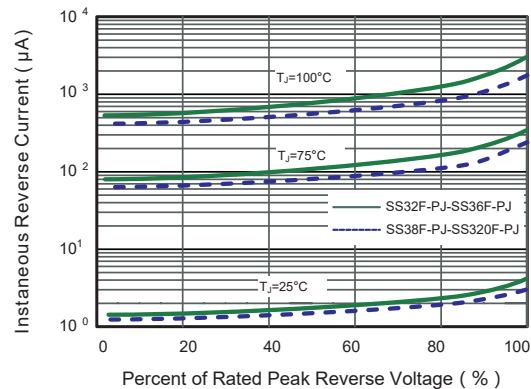


Fig.3 Typical Forward Characteristic

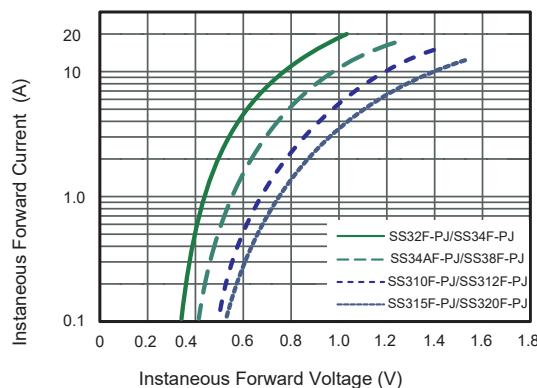


Fig.4 Typical Junction Capacitance

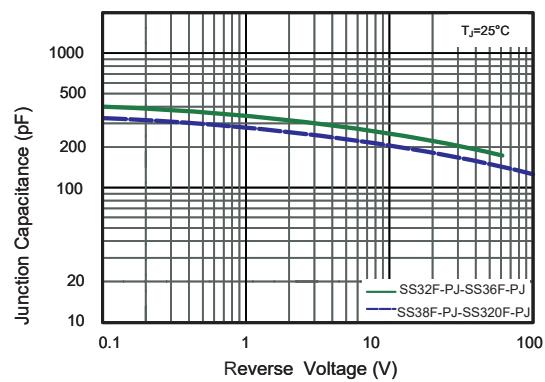


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

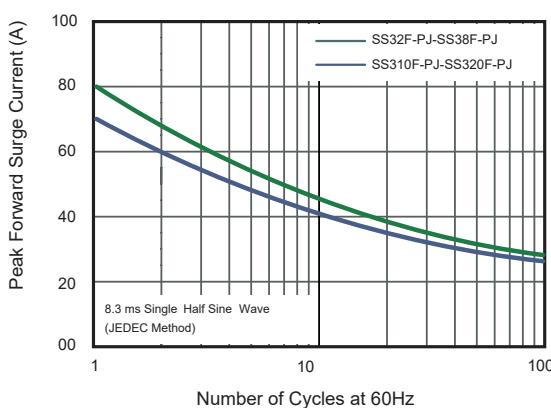
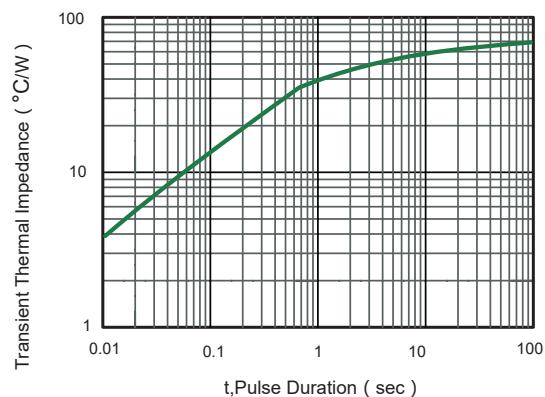
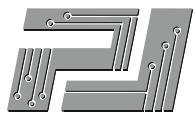


Fig.5- Typical Transient Thermal Impedance



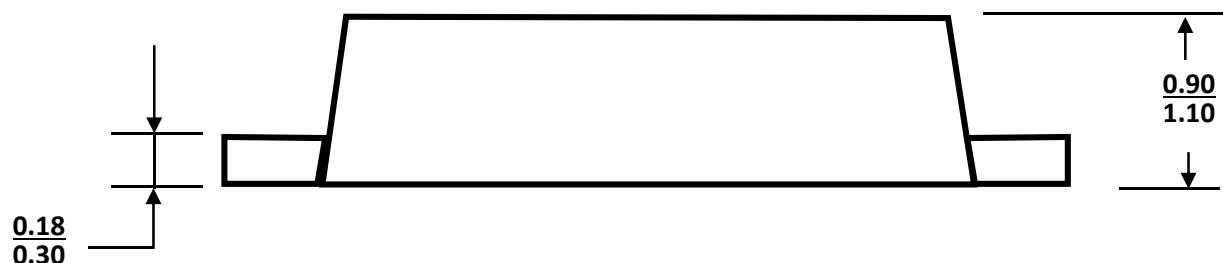
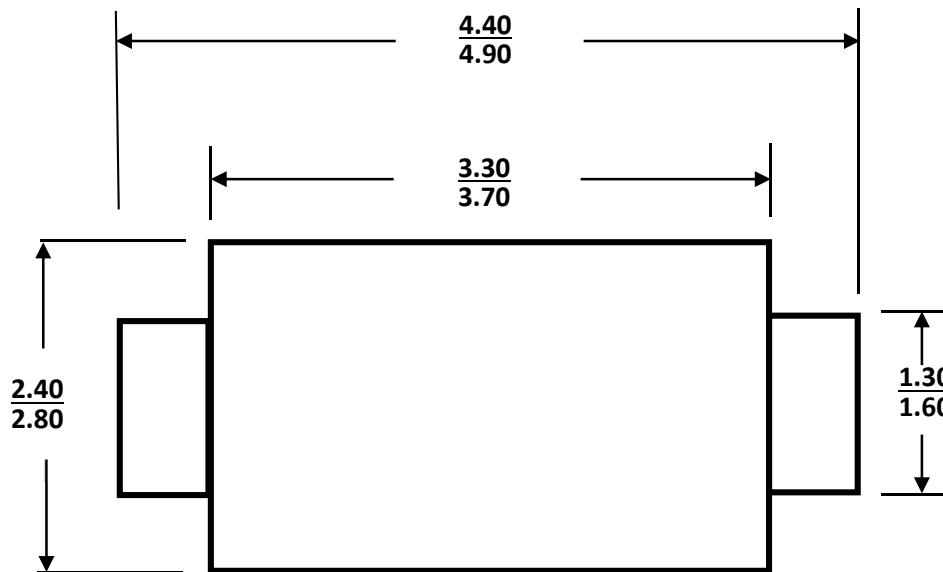


SS32F-PJ thru SSF320-PJ

Schottky Barrier Rectifier

PACKAGE OUTLINE

SMAF



Dimensions in millimeters

ORDERING INFORMATION

Device	Package	Shipping
SS32F-PJ thru SS320F-PJ	SMAF	3,000/Tape & Reel (7 inches)
		10,000/ Tape & Reel (13 inches)