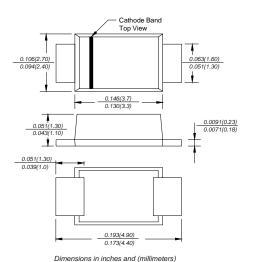


# SS32F THRU SS3200F

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Ampere

### **SMAF**



### **FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- Low power loss,high efficiency
  Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC SMAF molded plastic body **Terminals**: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

**Mounting Position**: Any

Weight: 0.0018 ounce, 0.064 grams

### 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 current derate by 20%.

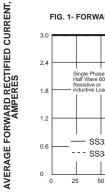
MDD Catalog Number	SYMBOLS	SS32F	SS33F	SS34F	SS35F	SS36F	SS38F	SS310F	SS3150F	SS3200F	UNITS	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum RMS voltage	Vrms	14	21	28	35	42	56	70	105	140	VOLTS	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum average forward rectified current at TL(see fig.1)	l(AV)	3.0									Amp	
Peak forward surge current												
8.3ms single half sine-wave superimposed on	IFSM	80.0								Amps		
rated load (JEDEC Method)												
Maximum instantaneous forward voltage at 3.0A	VF	0.55			0.70			0.85		0.95	Volts	
Maximum DC reverse current Ta=25℃		0.5 0.2									mA	
at rated DC blocking voltage Ta=100℃	l R	20.0						10 2.0		0	_ IIIA	
Typical junction capacitance (NOTE 1)	Cı	500				300					pF	
Typical thermal resistance (NOTE 2)	Reja	55.0								°C/W		
Operating junction temperature range	TJ,		-50 to +125 -50 to					+150		°C		
Storage temperature range	Тѕтс	-50 to +150								°C		

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



## RATINGS AND CHARACTERISTIC CURVES SS32F THRU SS3200F



TJ=25℃

10.0

0.01

0.2 0.4

INSTANTANEOUS FORWARD CURRENT, AMPERES

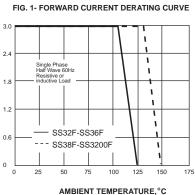
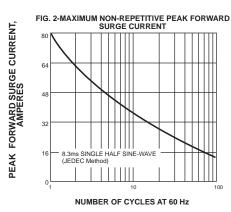
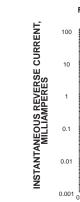
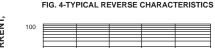
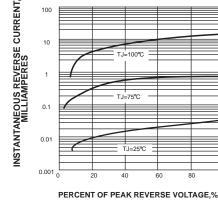


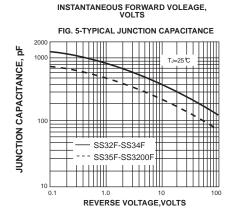
FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



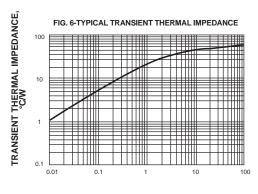








0.6 0.8 1.0



t, PULSE DURATION, sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

\$\$32F-\$\$34F \$\$35F-\$\$36F \$\$38F-\$\$3150F

1.2 1.4

SS3200F



100