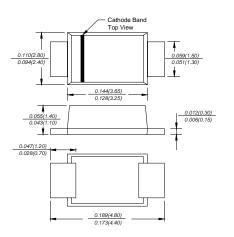


SS12F THRU SS1200F

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere

SMAF



Dimensions in inches and (millimeters)

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

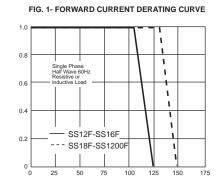
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

1										
SYMBOLS	SS12F	SS13F	SS14F	SS15F	SS16F	SS18F	SS110F	SS1150F	SS1200F	UNITS
VRRM	20	30	40	50	60	80	100	150	200	VOLTS
VRMS	14	21	28	35	42	56	70	105	140	VOLTS
VDC	20	30	40	50	60	80	100	150	200	VOLTS
lana 1.0									Amp	
I(AV)	1.0									
IFSM	30.0								Amps	
VF	0.55		0.70			0.85		0.95	Volts	
	0.5 0.2									mA
l IR	10.0						5.0 2.			
C¹	110			90				pF		
Reja	88.0								°C/W	
TJ,	-50 to +1			25		-50 to +150			°C	
Тѕтс	-50 to +150								°C	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ R 0JA TJ,	V _{RRM} 20 V _{RMS} 14 V _{DC} 20 I(aV) IFSM VF IR CJ RθJA TJ,	V _{RRM} 20 30 V _{RMS} 14 21 V _{DC} 20 30 I(AV) IFSM VF 0.55 IR C _J 110 RθJA T _J , -5	V _{RRM} 20 30 40 V _{RMS} 14 21 28 V _{DC} 20 30 40 I(AV) IFSM V _F 0.55 I _R C _J 110 RθJA T _J -50 to +	V _{RRM} 20 30 40 50 V _{RMS} 14 21 28 35 V _{DC} 20 30 40 50 I(AV) IFSM VF 0.55 IR 0.5 CJ 110 RθJA TJ, -50 to +125	V _{RRM} 20 30 40 50 60 V _{RMS} 14 21 28 35 42 V _{DC} 20 30 40 50 60 I(AV) 1.0 IFSM 30.0 V _F 0.55 0.70 IR 10.0 0.5 C _J 110 88.0 T _J -50 to +125	VRRM 20 30 40 50 60 80 VRMS 14 21 28 35 42 56 VDC 20 30 40 50 60 80 I(AV) 1.0 1.0 VF 0.55 0.70 0.5 IR 10.0 0.5 CJ 110 88.0 TJ, -50 to +125 -50 to +125	V _{RRM} 20 30 40 50 60 80 100 V _{RMS} 14 21 28 35 42 56 70 V _{DC} 20 30 40 50 60 80 100 I _(AV) 1.0 1.0 <t< td=""><td>V_{RRM} 20 30 40 50 60 80 100 150 V_{RMS} 14 21 28 35 42 56 70 105 V_{DC} 20 30 40 50 60 80 100 150 I(AV) 1.0 1.0 30.0 1.0 <td< td=""><td> VRMS</td></td<></td></t<>	V _{RRM} 20 30 40 50 60 80 100 150 V _{RMS} 14 21 28 35 42 56 70 105 V _{DC} 20 30 40 50 60 80 100 150 I(AV) 1.0 1.0 30.0 1.0 <td< td=""><td> VRMS</td></td<>	VRMS

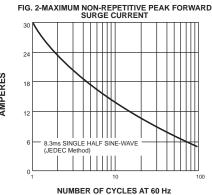
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS12F THRU SS1200F











AMBIENT TEMPERATURE,°C

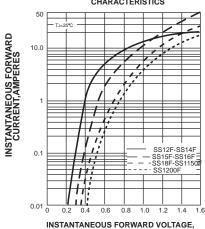
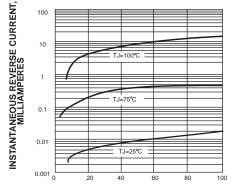
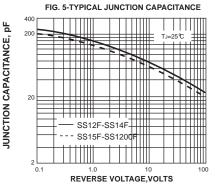


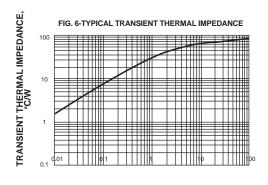
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS







t,PULSE DURATION,sec.