

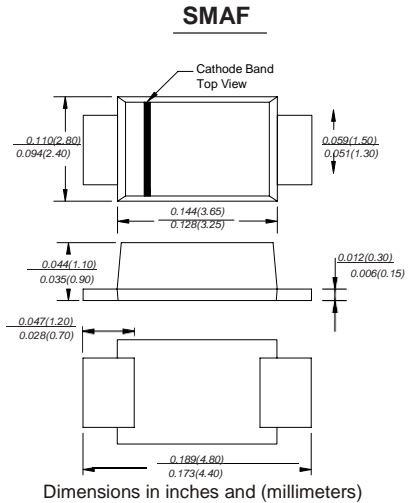
# 1.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

## Features:

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## Mechanical Data:

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.063 grams
- \* Both normal and Pb free product are available:
- \* Normal: 80~95%Sn, 5~20%Pb
- \* Pb free: 99 Sn above can meet Rohs environment substance directive request



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

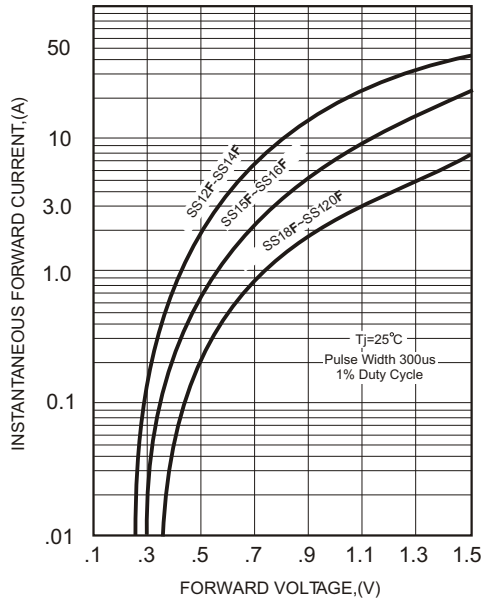
TYPE NUMBER	SS12F	SS13F	SS14F	SS15F	SS16F	SS110F	SS120F	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	100	200	V	
Maximum RMS Voltage	14	21	28	35	42	70	140	V	
Maximum DC Blocking Voltage	20	30	40	50	60	100	200	V	
Maximum Average Forward Rectified Current	1.0							A	
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	25							A	
Maximum Instantaneous Forward Voltage at 1.0A	0.55		0.70		0.85			V	
Maximum DC Reverse Current Ta=25°C	0.5				mA				
at Rated DC Blocking Voltage Ta=100°C	10				mA				
Typical Junction Capacitance (Note1)	110				pF				
Typical Thermal Resistance R JA (Note 2)	50				°C/W				
Operating Temperature Range Tj	-65 — +125			-65 — +150					°C
Storage Temperature Range TSTG	-65 — +150								°C

**NOTES:**

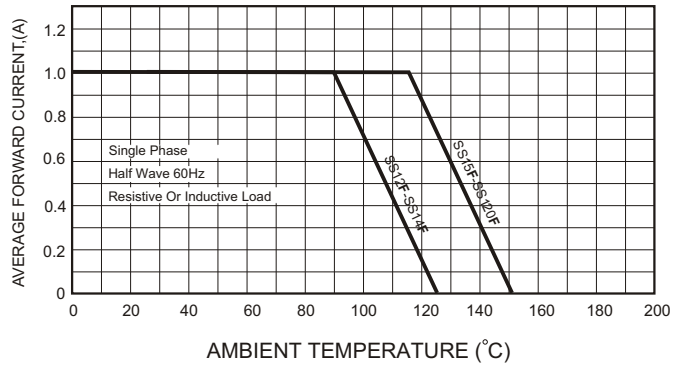
1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

**RATING AND CHARACTERISTIC CURVES (SS12F THRU SS120F)**

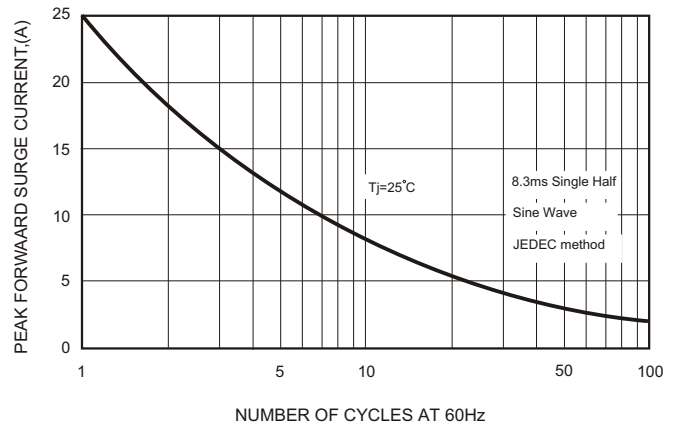
**FIG.1-TYPICAL FORWARD CHARACTERISTICS**



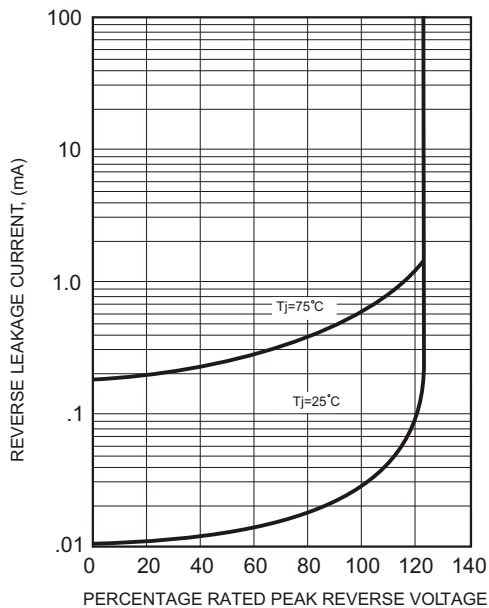
**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



**FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

