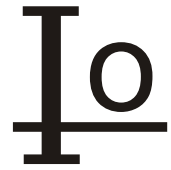


# SS32F THRU SS320F



## 3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop
- \* Lead Free Finish/RoHS Compliant

### 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: 0.064 grams

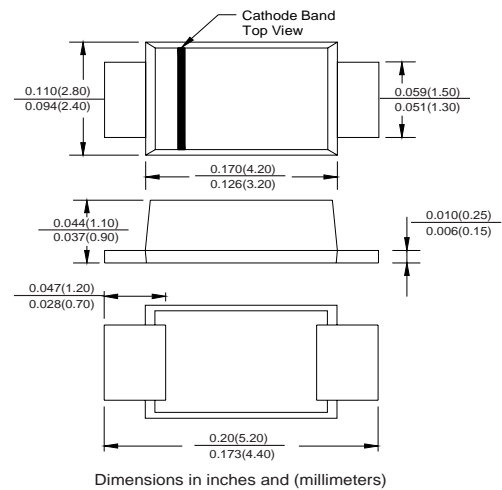
### VOLTAGE RANGE

20 to 200 Volts

### CURRENT

3.0 Ampere

#### SMAF



## 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	SS32F	SS34F	SS35F	SS36F	SS38F	SS310F	SS315F	SS320F	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	50	60	80	100	150	200	V
Maximum RMS Voltage	14	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	20	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current	3.0								A
See Fig.1									
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	100								A
Maximum Instantaneous Forward Voltage at 3.0A	0.55	0.70	0.85	0.95					V
Maximum DC Reverse Current Ta=25° C					500				uA
at Rated DC Blocking Voltage Ta=100° C					20				mA
Typical Junction Capacitance (Note1)					170				pF
Typical Thermal Resistance R JA (Note 2)					70				°C/W
Operating Temperature Range Tj					-65— +150				°C
Storage Temperature Range Tstg					-65— +150				°C
Voltage Rate of Change (Rated VR)					10,000				V/μs

#### NOTES:

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

# RATING AND CHARACTERISTIC CURVES (SS32F THRU SS320F)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

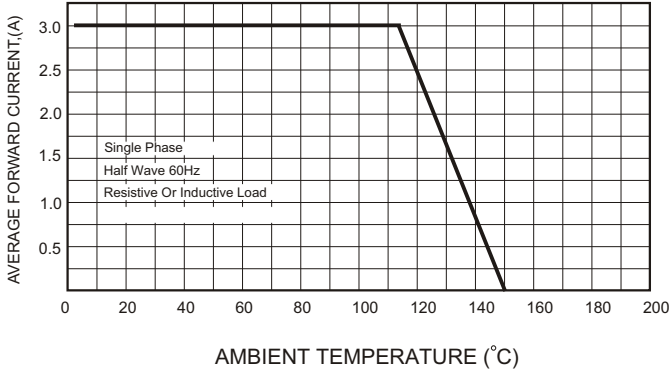


FIG.2-TYPICAL FORWARD CHARACTERISTICS

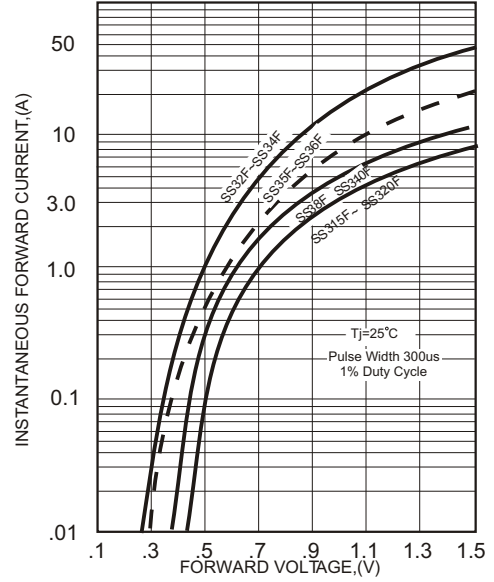


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

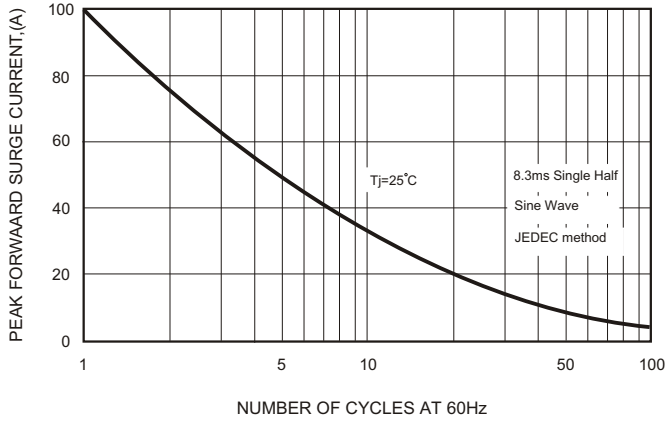


FIG.4-TYPICAL JUNCTION CAPACITANCE

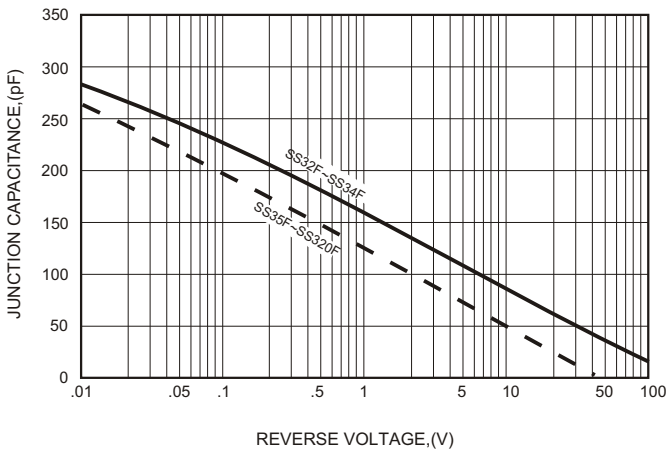


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

