SS32F THRU SS320F

3.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE
20 to 200 Volts
CURRENT
3.0 Ampere

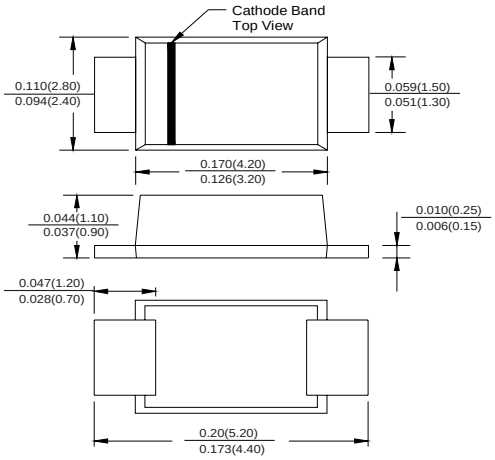
FEATURES

* 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

SMAF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25° C ambient temperature uniess otherwies 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 See Fig.1	3.0								A
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 T_J	-65— +150								°C
Storage Temperature Range T_{STG}	-65— +150								°C
Voltage Rate of Change (Rated V_R)	10,000								V/μs

NOTES:

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

2. Thermal Resistance Junction to Ambient.

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RATING AND CHARACTERISTIC CURVES (SS32F THRU SS320F)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

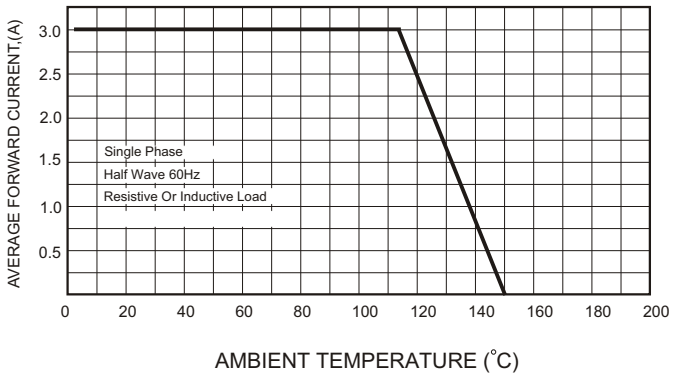


FIG.2-TYPICAL FORWARD CHARACTERISTICS

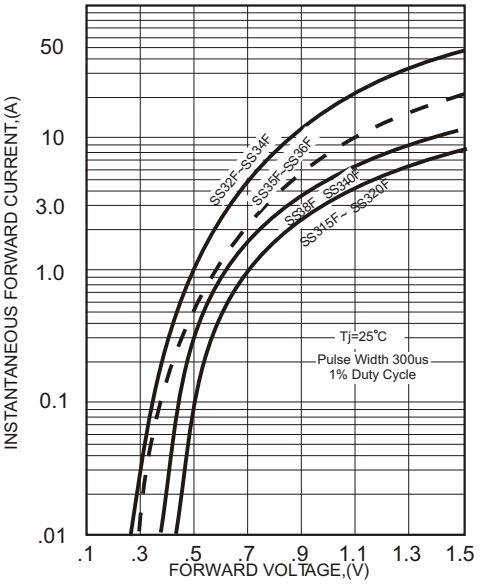


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

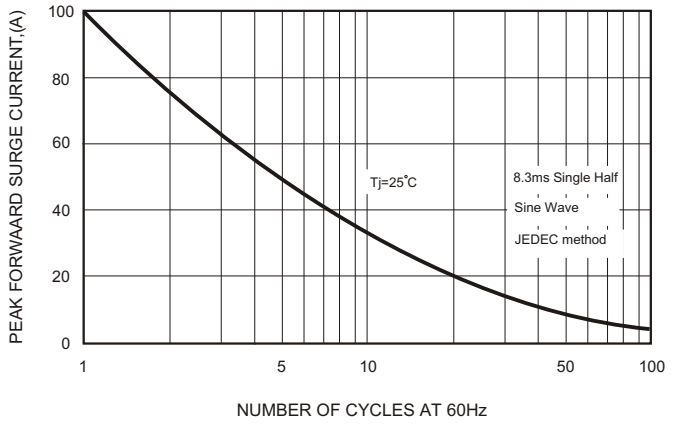


FIG.4-TYPICAL JUNCTION CAPACITANCE

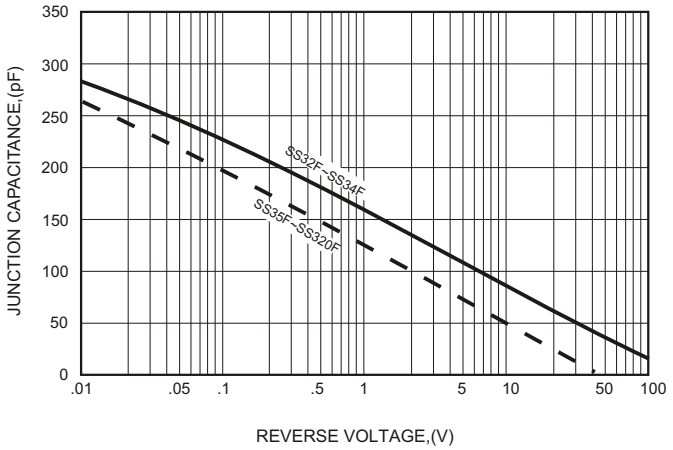
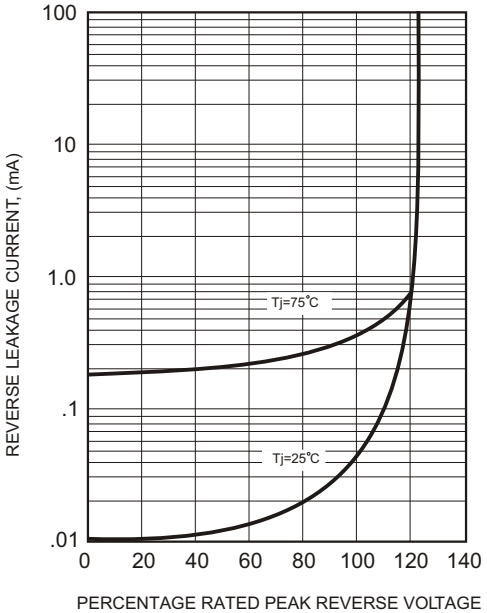


FIG.5 - TYPICAL REVERSE CHARACTERISTICS



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