



SS32FL-SS310FL

ULTRA LOW VF SCHOTTKY RECTIFIER



FEATURES

- For surface mounted applications
- Metal-Semiconductor junction with guarding
- Epitaxial construction
- Very low forward voltage drop
- High current capability
- Plastic material has UL flammability classification 94V-0
- For use in lowvoltage, high frequency inverters, free wheeling, and polarity protection applications.

MECHANICAL DATA

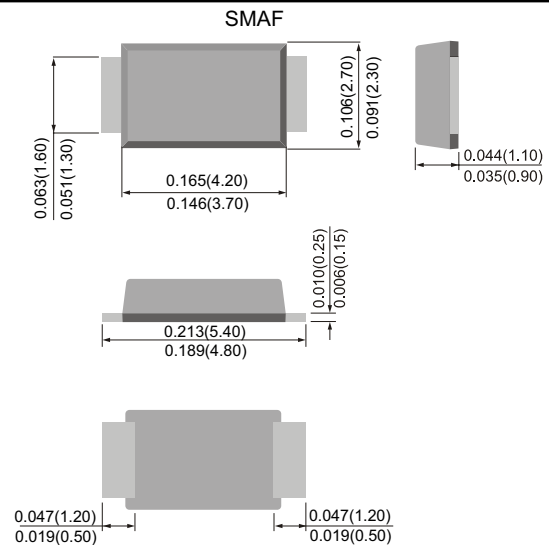
- Case: Molded Plastic
- Polarity: Indicated by cathode band
- Weight: 0.032 grams

VOLTAGE RANGE

20 to 100 Volts

CURRENT

3.0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	SS32FL	SS34FL	SS36FL	SS310FL	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	100	V
Maximum RMS Voltage	V _{RMS}	14	28	42	70	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	100	V
Maximum Average Forward Rectified Current @T _L =100 °C	I _(AV)	3.0				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I _{FSM}	80				A
Maximum Forward Voltage at 3.0A DC	V _F	0.42		0.45	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =100°C	I _R	1.0 20				mA
Typical Junction Capacitance (Note1)	C _J	250				pF
Typical Thermal Resistance (Note2)	R _{θJL}	10				°C/W
Typical Thermal Resistance (Note3)	R _{θJA}	50				°C/W
Operating Temperature Range	T _J	-55 to + 150				°C
Storage Temperature Range	T _{STG}	-55 to + 150				°C

NOTES:1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance junction to lead.

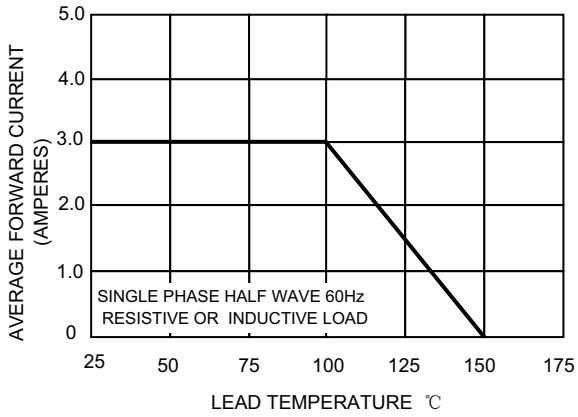
3.Thermal resistance junction to ambient.

4.The typical data above is for reference only(典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

SS32FL-SS310FL

FIG. 1 - FORWARD CURRENT DERATING CURVE



SURGE CURRENT

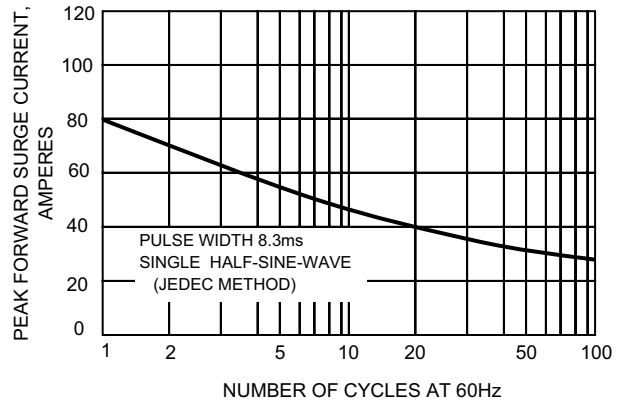


FIG.3-TYPICAL FORWARD CHARACTERISTICS

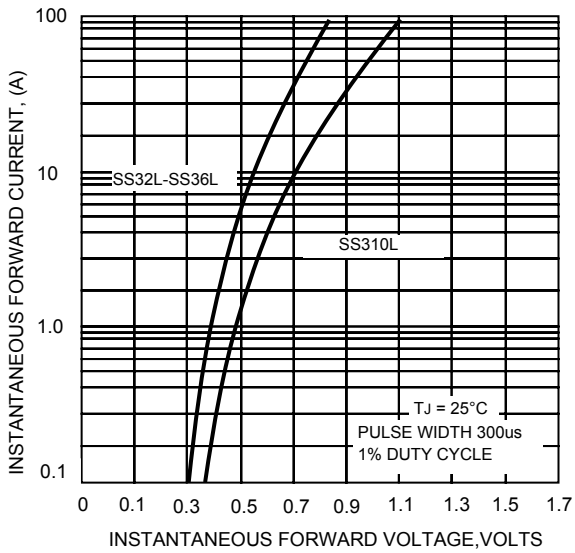


FIG.4-TYPICAL JUNCTION CAPACITANCE

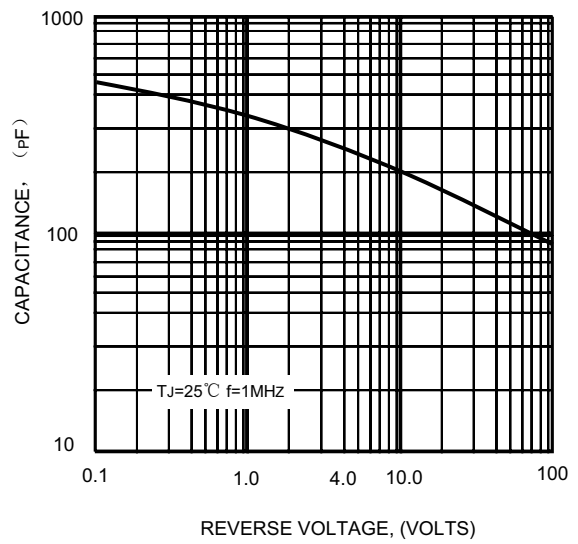
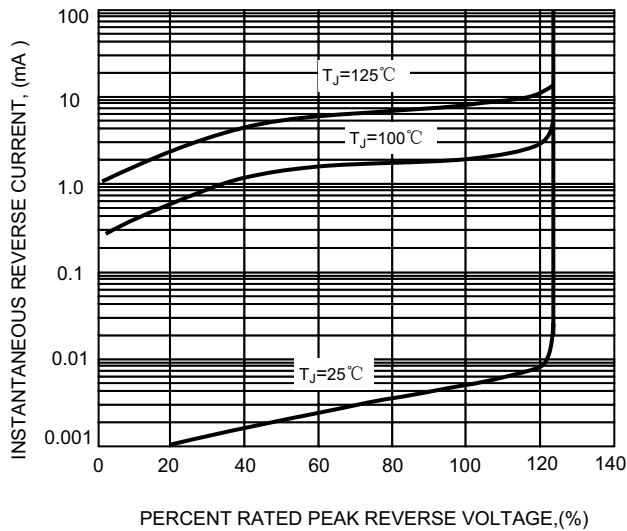


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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