SS22F THRU SS220F

2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Features

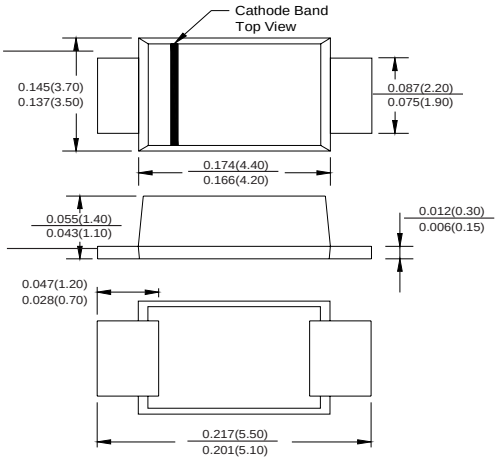
- Metal silicon junction, majority carrier c onduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SMBF
- Terminals:Solder plated,solderable per MIL-STD-750,Method 2026
- Weight: 0.082grams

VOLTAGE RANGE
20 to 200 Volts
CURRENT
2.0 Ampere

SMBFL



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SS22F	SS24F	SS25F	SS26F	SS210F	SS212F	SS215F	SS220F	UNITS
Maximum Recurrent Peak Reverse Voltage	20	40	50	60	100	120	150	200	V
Maximum RMS Voltage	14	20	35	42	70	84	105	140	V
Maximum DC Blocking Voltage	20	40	50	60	100	120	150	200	V
Maximum Average Forward Rectified Current See Fig.1	2.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50				40				A
Maximum Instantaneous Forward Voltage at 2.0A	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current Ta=25℃	500				300				uA
at Rated DC Blocking Voltage Ta=100℃	10				5				mA
Typical Junction Capacitance (Note1)	250		110						pF
Typical Thermal Resistance R JA (Note 2)	70								℃/W
Operating Temperature Range TJ	-55— +125								℃
Storage Temperature Range TSTG	-55— +150								℃

NOTES:

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

RATING AND CHARACTERISTIC CURVES (SS22F THRU SS220F)

Fig.1 Forward Current Derating Curve

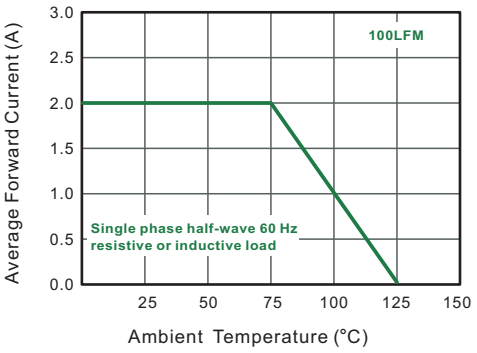


Fig.2 Typical Reverse Characteristics

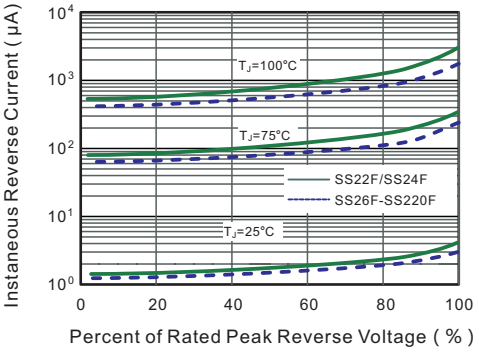


Fig.3 Typical Forward Characteristic

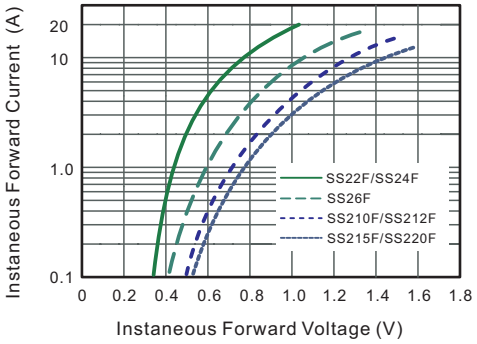


Fig.4 Typical Junction Capacitance

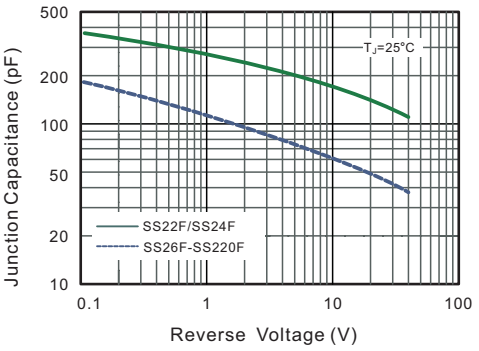


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current