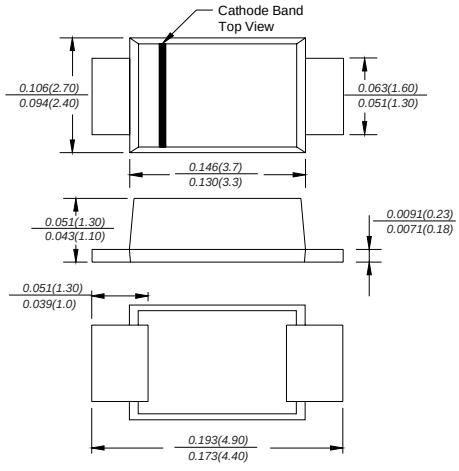
# SS32F THRU SS3200F

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

*Reverse Voltage - 20 to 200 Volts  Forward Current - 3.0 Ampere*

### SMAF




*Dimensions in inches and (millimeters)*

### FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction,majority carrier conduction
- Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260℃/10 seconds at terminals

### MECHANICAL DATA

**Case**: JEDEC SMAF molded plastic body
**Terminals**: leads solderable per MIL-STD-750, Method 2026
**Polarity**: Color band denotes cathode end
**Mounting Position**: Any
**Weight**:0.0018 ounce, 0.064 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

| MDD Catalog Number | *SYMBOLS* | SS32F | SS33F | SS34F | SS35F | SS36F | SS38F | SS310F | SS3150F | SS3200F | UNITS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum repetitive peak reverse voltage | $V_{RRM}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | VOLTS |
| Maximum RMS voltage | $V_{RMS}$ | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | VOLTS |
| Maximum DC blocking voltage | $V_{DC}$ | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | VOLTS |
| Maximum average forward rectified current at $T_L$(see fig.1) | $I_{(AV)}$ | 3.0 | | | | | | | | | Amp |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$ | 80.0 | | | | | | | | | Amps |
| Maximum instantaneous forward voltage at 3.0A | $V_F$ | 0.55 | | | 0.70 | | 0.85 | | | 0.95 | Volts |
| Maximum DC reverse current $T_A$=25℃ | $I_R$ | 0.5 | | | | | | | 0.2 | | mA |
| at rated DC blocking voltage $T_A$=100℃ | | 20.0 | | | | | 10 | | 2.0 | | |
| Typical junction capacitance (NOTE 1) | $C_J$ | 500 | | | 300 | | | | | | pF |
| Typical thermal resistance (NOTE 2) | $R_{\theta JA}$ | 55.0 | | | | | | | | | °C/W |
| Operating junction temperature range | $T_{J,}$ | -50 to +125 | | | | | -50 to +150 | | | | °C |
| Storage temperature range | $T_{STG}$ | -50 to +150 | | | | | | | | | °C |

**Note:**1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

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# RATINGS AND CHARACTERISTIC CURVES SS32F THRU SS3200F

FIG. 1- FORWARD CURRENT DERATING CURVE

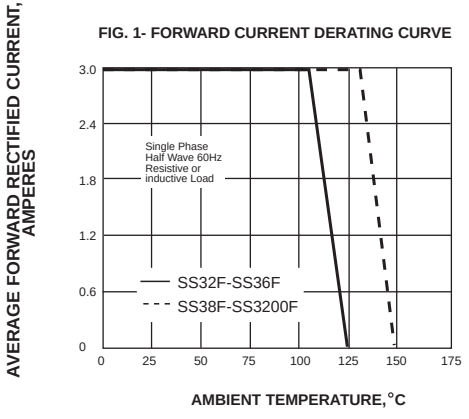



FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

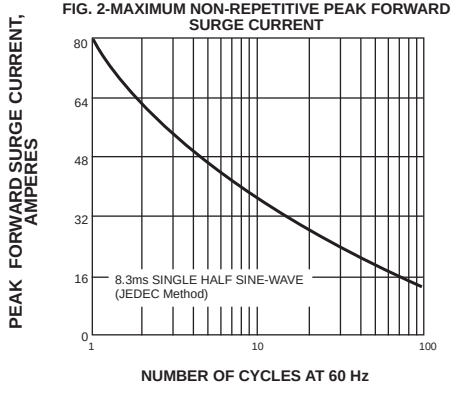



FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

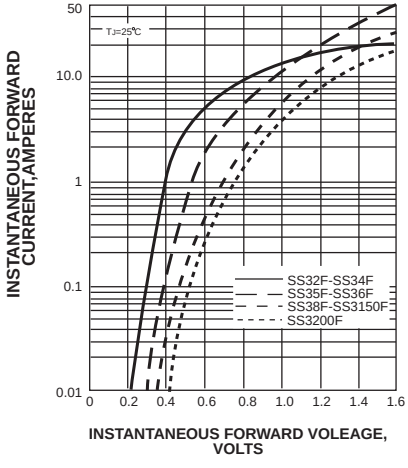



FIG. 4-TYPICAL REVERSE CHARACTERISTICS

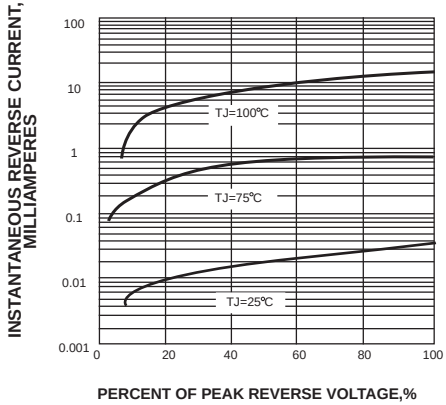



FIG. 5-TYPICAL JUNCTION CAPACITANCE

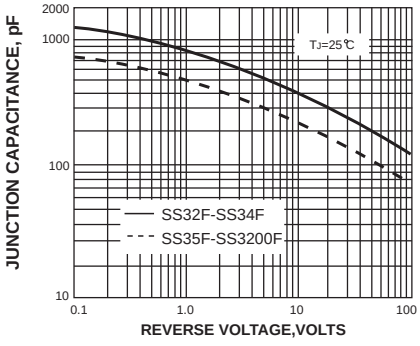
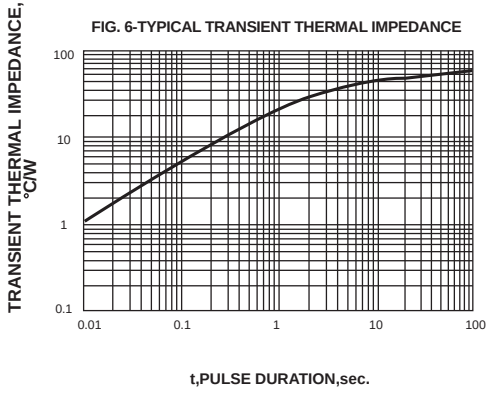



FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE




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

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