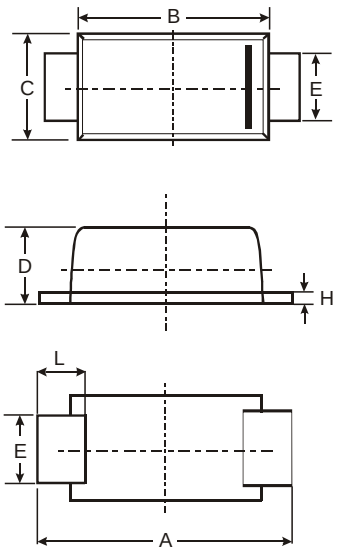
CURRENT 3.0 Ampere
VOLTAGE RANG 20 to 200 Volts

# SS32F THRU SS320F

## FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250℃/10 seconds at terminals

## S M A F




| Dim | Min | Max | Typ |
|---|---|---|---|
| A | 4.75 | 4.85 | 4.80 |
| B | 3.68 | 3.72 | 3.70 |
| C | 2.57 | 2.63 | 2.60 |
| D | 0.097 | 1.03 | 1.00 |
| E | 1.38 | 1.42 | 1.40 |
| H | 0.13 | 0.17 | 0.15 |
| L | 0.63 | 0.67 | 0.65 |
| All Dimensions in mm | | | |

## Mechanical Data

Case: SMAF,Molded Plastic

Terminals: Solder Plated, 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%.

| | SYMBOLS | SS32 | SS33 | SS34 | SS35 | SS36 | SS38 | SS310 | SS315 | SS320 | 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 | 150 | 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 | | | | | | | | | Amps |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$ | 100.0 | | | | | | | | | 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 | | | | | 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

CURRENT 3.0 Ampere
VOLTAGE RANG 20 to 200 Volts

# SS32F THRU SS320F

## RATING AND CHRACTERISTIC CURVES SS32 Thru SS320

FIG. 1- FORWARD CURRENT DERATING CURVE

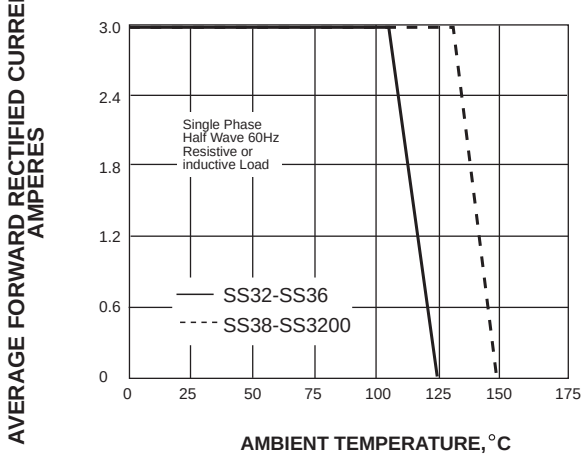



FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

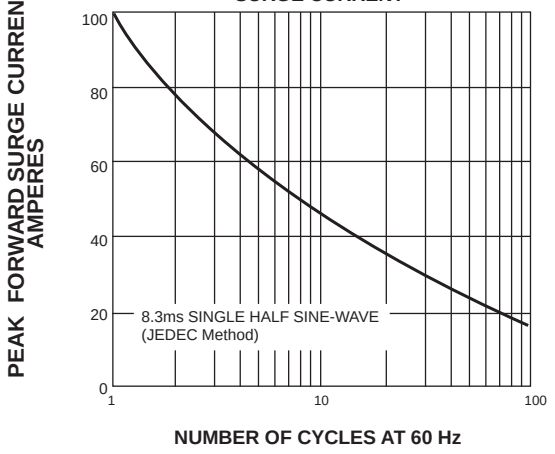



FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

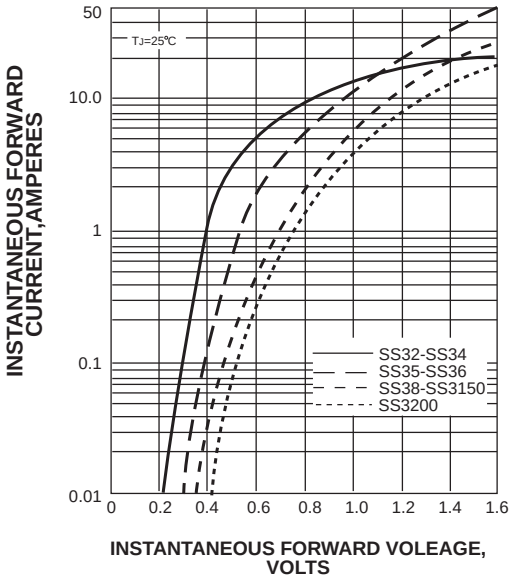



FIG. 4-TYPICAL REVERSE CHARACTERISTICS

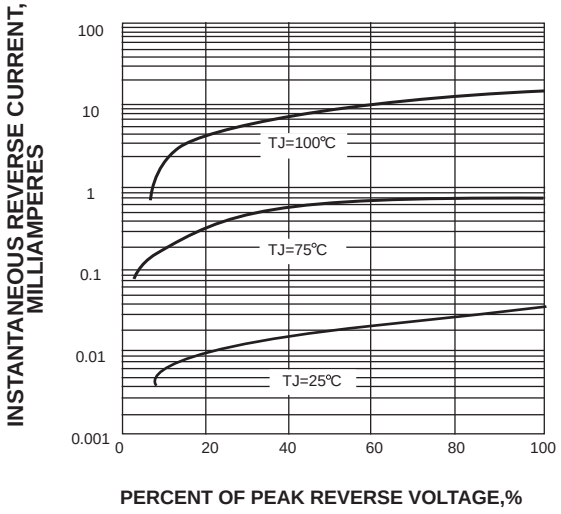



FIG. 5-TYPICAL JUNCTION CAPACITANCE

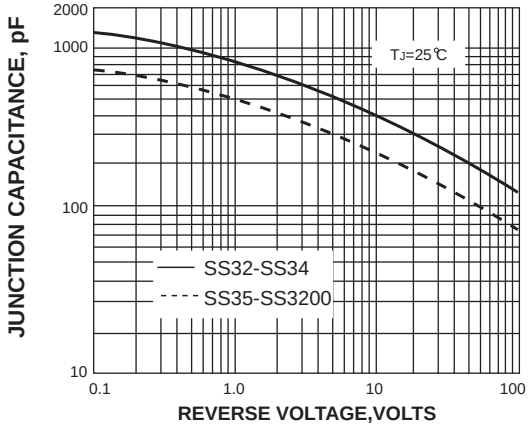



FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

