

CURRENT 5.0 Ampere
 VOLTAGE RANG 20 to 200 Volts

SS52C THRU SS520C

FEATURES

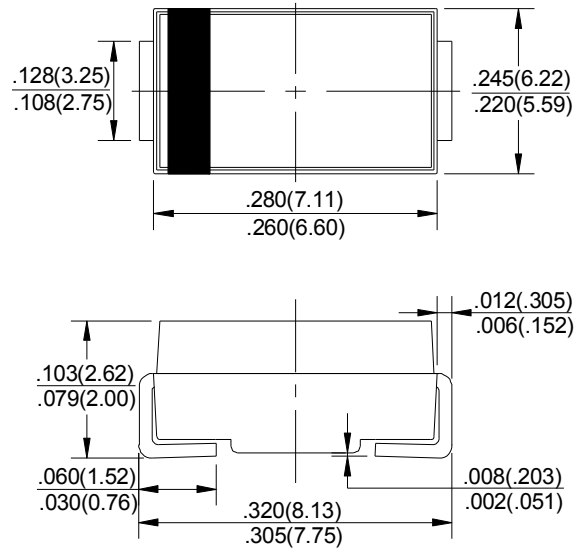
- ▶ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ▶ For surface mounted applications
- ▶ Low reverse leakage
- ▶ Built-in strain relief, ideal for automated placement
- ▶ High forward surge current capability
- ▶ High temperature soldering guaranteed: 250°C/10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

MECHANICAL DATA

Case: JEDED DO-214AB transfer molded plastic

- Terminals: Solder plated, solderable per MIL-STD-750
- Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce, 0.25 gram

DO-214AB/SMC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

| Catalog Number | SYMBOLS | SS52 | SS53 | SS54 | SS55 | SS56 | SS58 | SS510 | SS515 | SS520 | 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) | $I_{(AV)}$ | 5.0 | | | | | | | | | Amps | |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 150.0 | | | | | | | | | Amps | |
| Maximum instantaneous forward voltage at 5.0A | V_F | 0.55 | | | 0.70 | | 0.85 | | 0.95 | | Volts | |
| Maximum DC reverse current $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$ | I_R | 0.5 | | | | | | 0.2 | | mA | | |
| | | 20 | | | 10 | | 2.0 | | | | | |
| Typical junction capacitance (NOTE 1) | C_J | 200 | | | | | | | | | pF | |
| Typical thermal resistance (NOTE 2) | $R_{\theta JA}$ | 50.0 | | | | | | | | | °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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RATING AND CHARACTERISTIC CURVES SS52 Thru SS520

