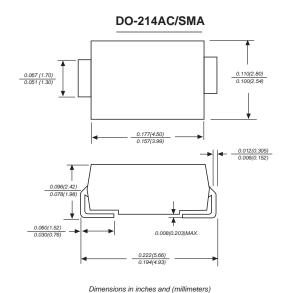


SS12 THRU SS1200

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 1.0 Ampere



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: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AC molded plastic body Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

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%.

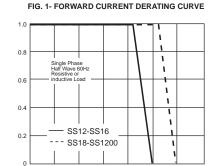
| MDD Catalog Number | SYMBOLS | SS12 | SS13 | SS14 | SS15 | SS16 | SS18 | SS110 | SS1150 | SS1200 | UNITS |
|---|---------|-------------|-----------|------|------|---------|-------------|-------|--------|--------|-------|
| Maximum repetitive peak reverse voltage | VRRM | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | VOLTS |
| Maximum RMS voltage | VRMS | 14 | 21 | 28 | 35 | 42 | 56 | 70 | 105 | 140 | VOLTS |
| Maximum DC blocking voltage | VDC | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 150 | 200 | VOLTS |
| Maximum average forward rectified current | I(AV) | | | | | 1.0 | | | | | Amn |
| at TL(see fig.1) | I(AV) | 1.0 | | | | | | | | | Amp |
| Peak forward surge current | | | | | | | | | | | |
| 8.3ms single half sine-wave superimposed on | Ігѕм | 30.0 | | | | | | | | | Amps |
| rated load (JEDEC Method) | | | | | | | | | | | |
| Maximum instantaneous forward voltage at 1.0A | VF | 0.45 | 0.45 0.55 | | 0 | 0.89 | | 0.85 | | 0.95 | Volts |
| Maximum DC reverse current Ta=25℃ | 0.5 | | | | | | | | | 2 | mA |
| at rated DC blocking voltage Ta=100℃ | lR | 10.0 | | | | 5.0 2.0 | |) | - IIIA | | |
| Typical junction capacitance (NOTE 1) | Cı | 110 | | | | 90 | | | | | pF |
| Typical thermal resistance (NOTE 2) | RθJA | 88.0 | | | | | | | | | °C/W |
| Operating junction temperature range | TJ, | -50 to +125 | | | | | -50 to +150 | | | | °C |
| Storage temperature range | Тѕтс | -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

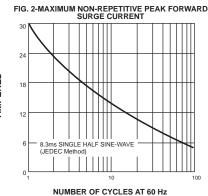
RATINGS AND CHARACTERISTIC CURVES SS12 THRU SS1200



0 25 50









100 125 150

AMBIENT TEMPERATURE,°C

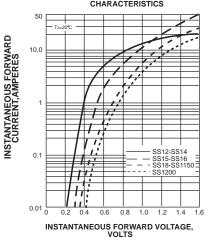
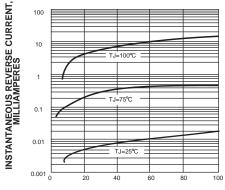
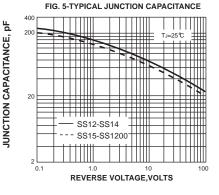


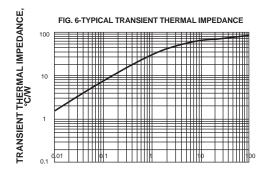
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



VOLTS







t,PULSE DURATION,sec.