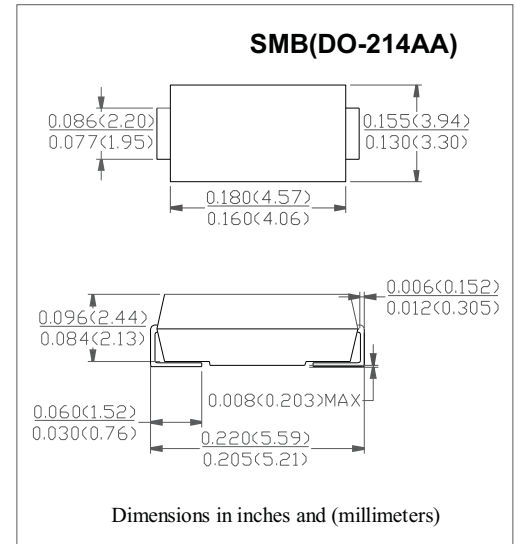


SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- High Performance & Reliability best suited for Automotive application
- For surface mount applications
- Metal-Semiconductor Junction with Guarding
- Epitaxial Construction
- Metal-Semiconductor Junction with Guarding Very
- Low forward voltage drop
- High Current capability
- For use in low voltage, high frequency inverters, Free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250 °C/10 seconds at terminals



MECHANICAL DATA

- Case: Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750 Method 2026
- Polarity: Indicated by Cathode Band
- Weight: 0.003ounce, 0.093gram

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 derate current by 20%.

| | SYMBOLS | SS22 | SS23 | SS24 | SS25 | SS26 | SS28 | SS29 | SS210 | UNITS |
|--|------------------|-------------|------|------|------|------|------|------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage | VRRM | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | Volts |
| Maximum RMS Voltage | VRMS | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | Volts |
| Maximum DC Blocking Voltage | VDC | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | Volts |
| Maximum Average Forward Rectified Current at TL=105°C | I(AV) | 2.0 | | | | | | | | Amps |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM | 50 | | | | | | | | Amps |
| Maximum Forward Voltage at 2.0A DC | V _F | 0.55 | | | 0.75 | | 0.85 | | | Volts |
| Maximum DC Reverse Current at rated DC blocking voltage (Note 1) | I _R | 0.5 | | | | | | | | mA |
| | | 15.0 | | | | | | | | |
| Typical Junction Capacitance (Note 1) | C _J | 75 | | | | | | | | pF |
| Typical thermal capacitance (Note 2) | RQJL | 15 | | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +125 | | | | | | | | °C |
| Storage temperature range | T _{STG} | -55 to +150 | | | | | | | | |

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Lead.

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

RATING AND CHARACTERISTIC CURVES SS22 - SS210

FIG.1-FORWARD CURRENT DERATING CURVE

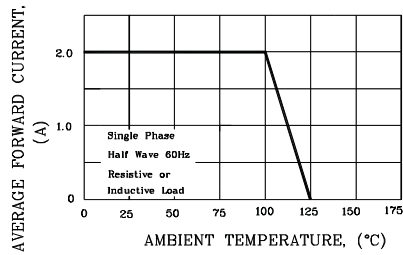


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

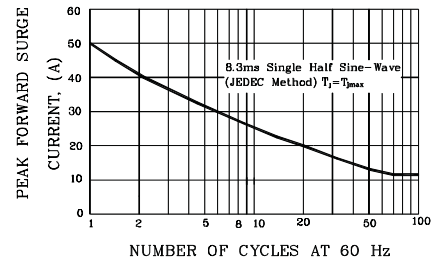


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

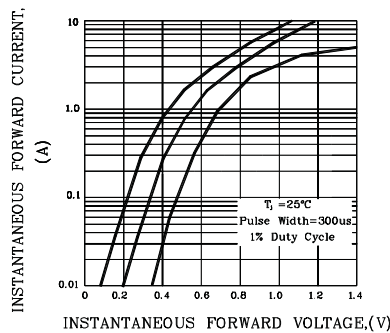


FIG.4-TYPICAL JUNCTION CAPACITANCE

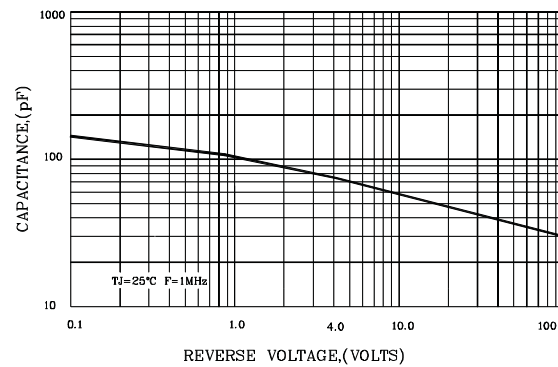
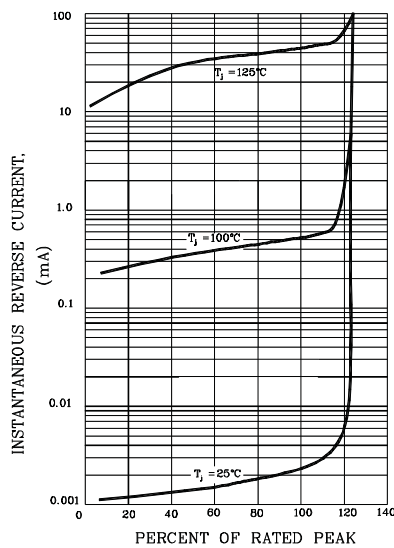


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.