

SS320



3.0 AMP SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

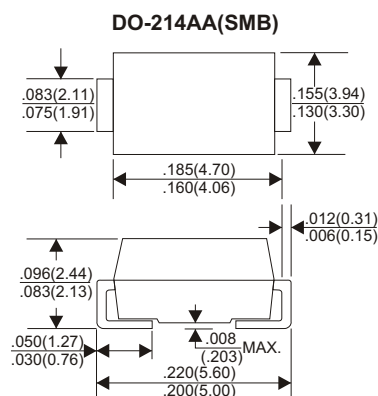
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.1066 grams
- * Lead Free Finish/RoHS Compliant

VOLTAGE RANGE

200 Volts

CURRENT

3.0 Amperes



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unieess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| TYPE NUMBER | SS320 | UNITS |
|--|------------|-------|
| Maximum Recurrent Peak Reverse Voltage | 200 | V |
| Maximum RMS Voltage | 140 | V |
| Maximum DC Blocking Voltage | 200 | V |
| Maximum Average Forward Rectified Current | | |
| See Fig. 1 | 3.0 | A |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 100 | A |
| Maximum Instantaneous Forward Voltage at 3.0A | 0.95 | V |
| Maximum DC Reverse Current Ta=25°C | 500 | uA |
| at Rated DC Blocking Voltage Ta=100°C | 10 | mA |
| Typical Junction Capacitance (Note1) | 380 | pF |
| Typical Thermal Resistance R JA(Note 2) | 17 | °C/W |
| Operating Temperature Range Tj | -65 — +150 | °C |
| Storage Temperature Range Tstg | -65 — +150 | °C |

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Mounted on P.C.Board with 14mm² (.013mm thick) copper pad areas

RATING AND CHARACTERISTIC CURVES (SS320)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

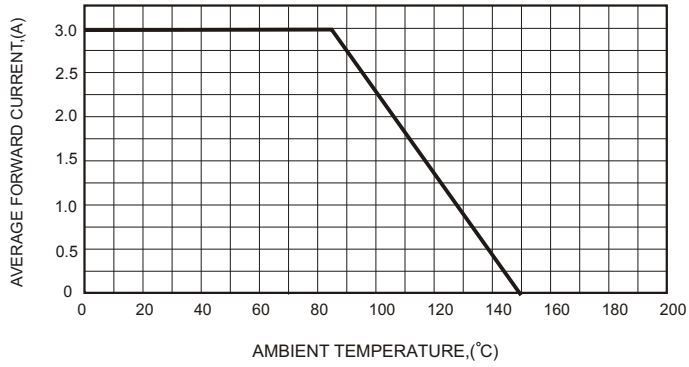


FIG.2-TYPICAL FORWARD CHARACTERISTICS

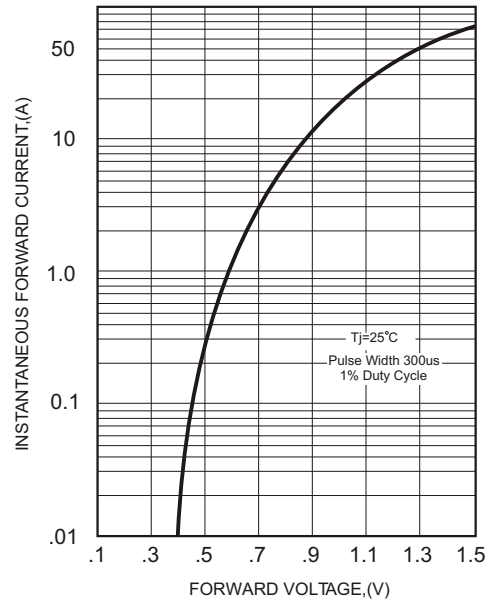


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

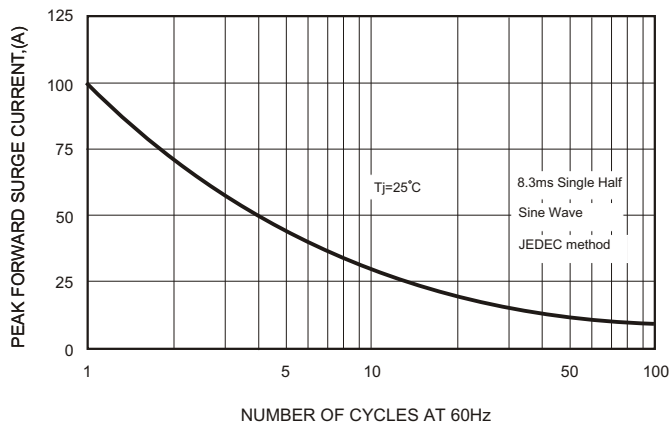


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

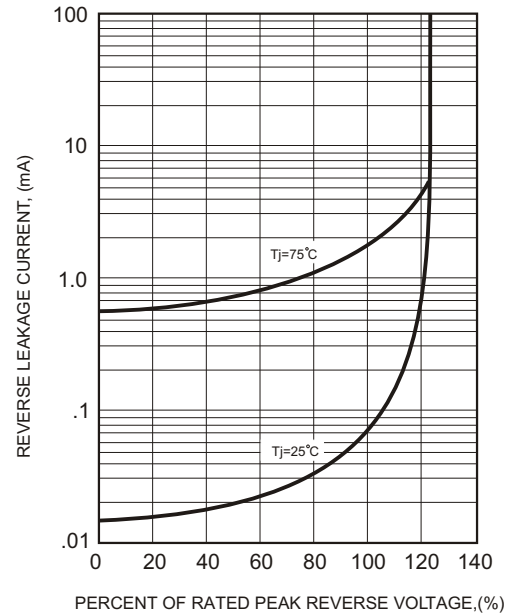


FIG.4-TYPICAL JUNCTION CAPACITANCE

