



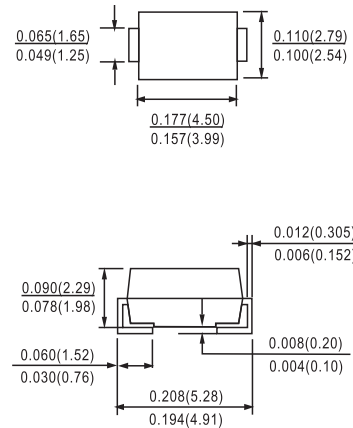
FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

Mechanical Data

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.063 grams

DO-214AC(SMA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER | SM320A | SM330A | SM340A | SM350A | SM360A | SM380A | SM390A | SM3100A | UNITS |
|---|------------|--------|--------|--------|--------|--------|--------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| Maximum RMS Voltage | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | V |
| Maximum DC Blocking Voltage | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| Maximum Average Forward Rectified Current At T _L =100°C | 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 | 0.55 | | 0.75 | | 0.85 | | | | V |
| Maximum DC Reverse Current Ta=25°C | 2.0 | | | | | | | | mA |
| at Rated DC Blocking Voltage Ta=100°C | 20 | | | | | | | | mA |
| Typical Junction Capacitance (Note1) | 300 | | | | | | | | pF |
| Typical Thermal Resistance R _{JL} (Note 2) | 10 | | | | | | | | °C/W |
| Operating Temperature Range T _J | -65 — +125 | | | | | | | | °C |
| Storage Temperature Range T _{STG} | -65 — +150 | | | | | | | | °C |

NOTES:

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

RATINGS AND CHARACTERISTIC CURVES SM320A THRU SM3100A

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

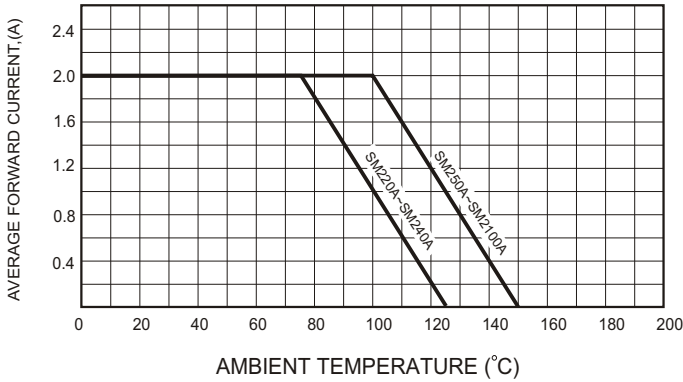


FIG.2-TYPICAL FORWARD CHARACTERISTICS

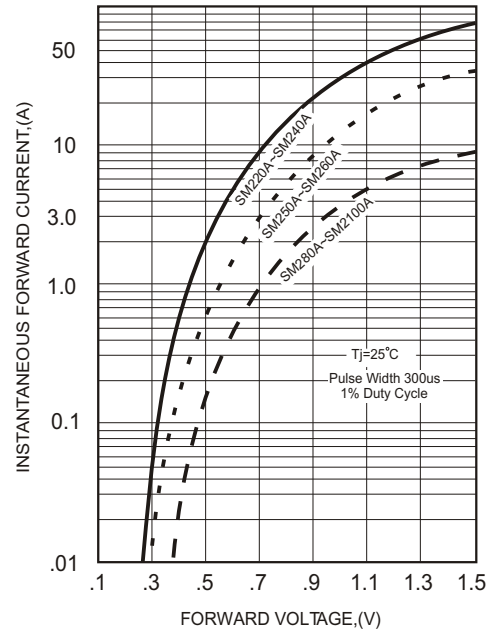


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

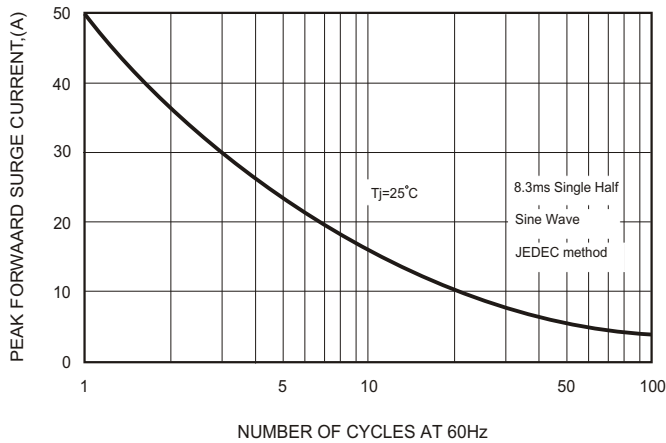


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

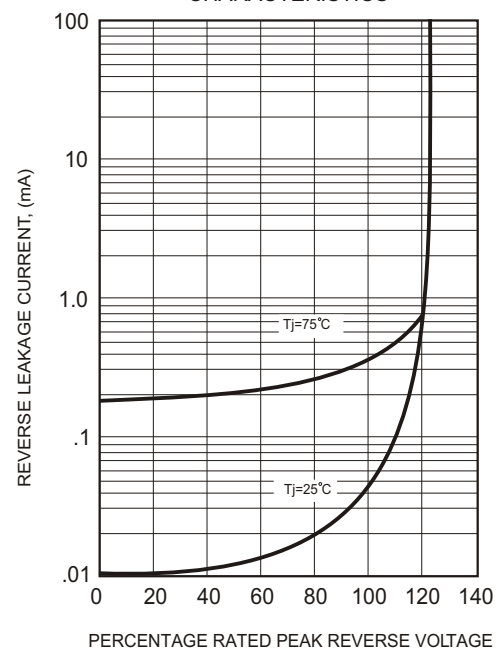


FIG.4-TYPICAL JUNCTION CAPACITANCE

