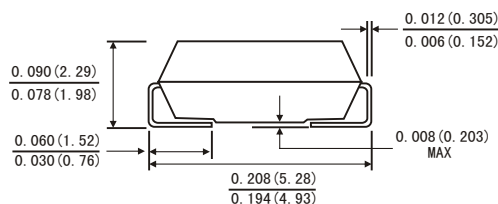
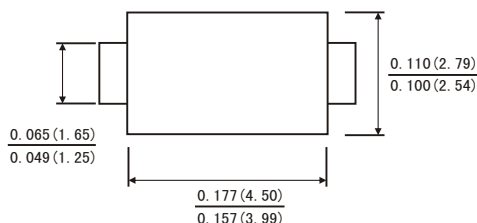


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 200/95/EC and WEEE 200/96/EC



SMA(DO-214AC)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic over glass passivated chip
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Polarity: Color band denotes cathode end
- Weight: 0.002 oz., 0.064 g

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 by 20%.)

| | | Symbols | S1A | S1B | S1D | S1G | S1G | S1J | S1M | Units |
|---|------------------------|-------------------|-------------|-----|-----|-----|-----|-----|-------|-------|
| Maximum Recurrent Peak Reverse Voltage | | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum average Forward Rectified Current 0.375"(9.5mm) lead length see Fig. 1 | | I _(AV) | 1.0 | | | | | | Amp | |
| Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) T _A =75°C | | I _{FSM} | 30.0 | | | | | | Amps | |
| Maximum Instantaneous Forward Voltage at 1.0 A | | V _F | 1.1 | | | | | | Volts | |
| Maximum Reverse current at rated DC Blocking Voltage | T _v = 25°C | I _R | 5.0 | | | | | | μA | |
| | T _v = 125°C | | 50.0 | | | | | | | |
| Typical Thermal resistance (Note 3) | | R _{θJA} | 75 | | | | | | °C/W | |
| | | R _{θJL} | 27 | | | | | | | |
| Typical Junction Capacitance (Note 2) | | C _J | 12 | | | | | | pF | |
| Operating and Storage temperature Range | | T _J | -55 to +150 | | | | | | °C | |
| | | T _{STG} | -55 to +150 | | | | | | | |

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES S1A THRU S1M

FIG.1-FORWARD CURRENT DERATING CURVE

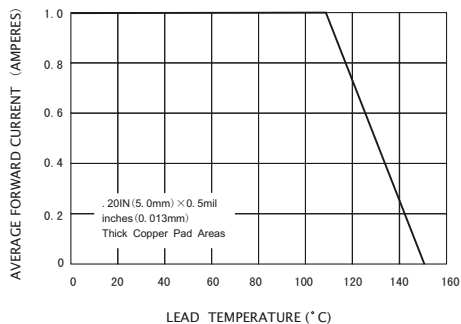


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

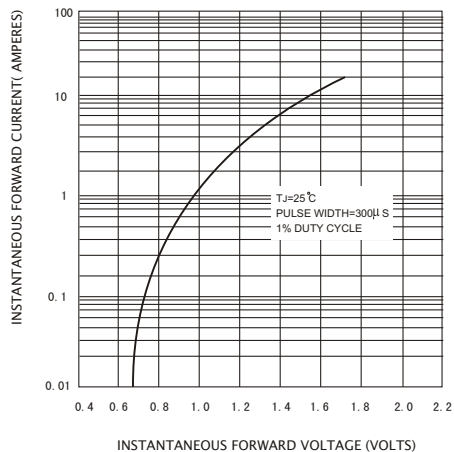


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

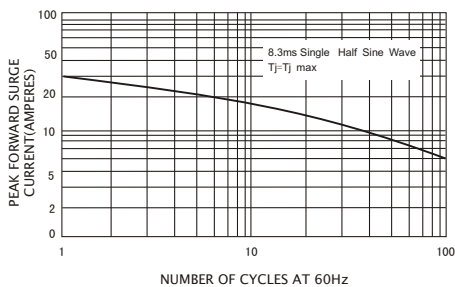


FIG.4-TYPICAL REVERSE CHARACTERISTICS

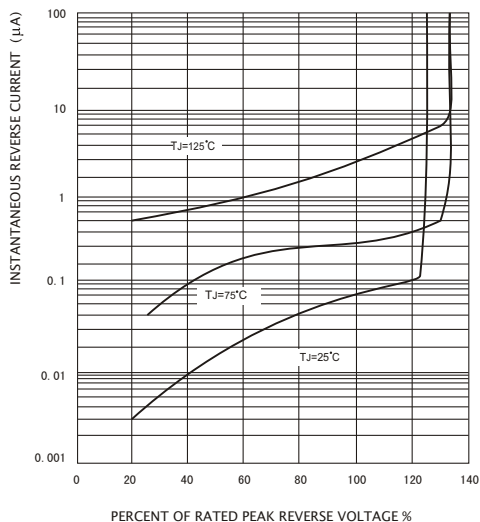


FIG.5-TYPICAL JUNCTION CAPACITANCE

