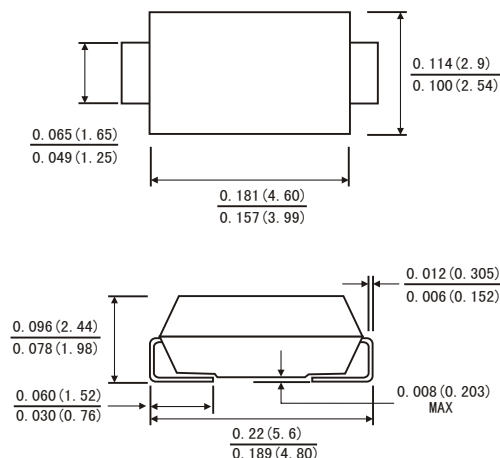


### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- For surface mount applications
- Guard ring for overvoltage protection
- Low power loss ,high efficiency
- High current capability ,Low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



### SMA(DO-214AC)



Dimensions in inches and (millimeters)

### MECHANICAL DATA

- Case: JEDEC SMA(DO-214AC) molded plastic body
- Terminals: Solder Plated, solderable per MIL-STD-750,method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002ounce, 0.064 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

|                                                                                                  |                       | Symbols                              | SS 12        | SS 13 | SS 14 | SS 15 | SS 16 | SS 18 | SS 110 | SS 115 | SS 120 | Volts |
|--------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|--------------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| Maximum repetitive peak reverse voltage                                                          |                       | V <sub>RRM</sub>                     | 20           | 30    | 40    | 50    | 60    | 80    | 100    | 150    | 200    | Volts |
| Maximum RMS voltage                                                                              |                       | V <sub>RMS</sub>                     | 14           | 21    | 28    | 35    | 42    | 57    | 71     | 105    | 140    | Volts |
| Maximum DC blocking voltage                                                                      |                       | V <sub>DC</sub>                      | 20           | 30    | 40    | 50    | 60    | 80    | 100    | 150    | 200    | Volts |
| Maximum average forward rectified current (See Fig. 1)                                           |                       | I(AV)                                | 1.0          |       |       |       |       |       |        |        |        | Amp   |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) |                       | I <sub>FSM</sub>                     | 40.0         |       |       |       |       |       |        |        |        | Amps  |
| Maximum instantaneous forward voltage at 1.0 A(note 1)                                           |                       | V <sub>F</sub>                       | 0.55         |       |       | 0.75  |       | 0.85  |        | 0.90   | 0.95   | Volts |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)                       | T <sub>A</sub> =25°C  | I <sub>R</sub>                       | 0.2          |       |       |       |       |       |        |        |        | mA    |
|                                                                                                  | T <sub>A</sub> =100°C |                                      | 10.0         |       |       |       |       |       |        |        |        |       |
| Typical thermal resistance (Note 2)                                                              |                       | R <sub>θJA</sub><br>R <sub>θJL</sub> | 88.0<br>28.0 |       |       |       |       |       |        |        |        | °C/W  |
| Operating junction temperature range                                                             |                       | T <sub>J</sub>                       | -65 to+150   |       |       |       |       |       |        |        |        | °C    |
| Storage temperature range                                                                        |                       | T <sub>STG</sub>                     | -65 to+150   |       |       |       |       |       |        |        |        | °C    |

Notes: 1.Pulse test: 300  $\mu$ s pulse width,1% duty cycle

2. P.C.B. mounted with 0.2 X 0.2"(5.0 X 5.0mm)copper pad areas

# RATINGS AND CHARACTERISTIC CURVES SS12 THRU SS120

FIG.1-FORWARD CURRENT DERATING CURVE

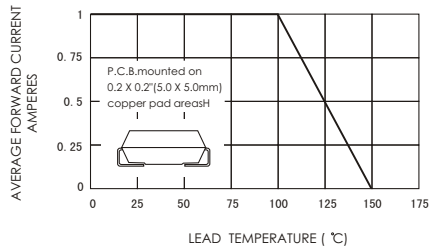


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

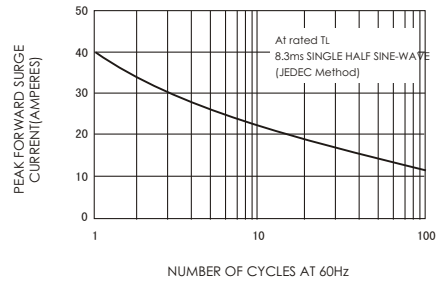


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

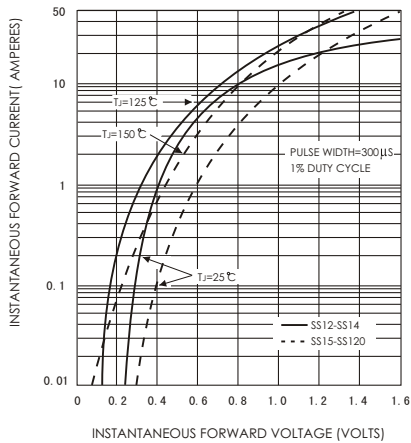


FIG.4-TYPICAL REVERSE CHARACTERISTICS

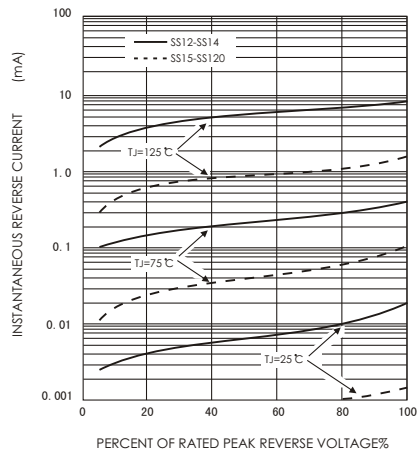
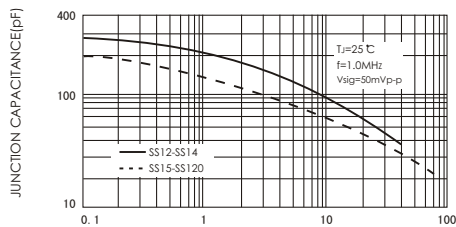


FIG.5-TYPICAL JUNCTION CAPACITANCE



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