

**REVERSE VOLTAGE: 20 - 100 V**

**FORWARD CURRENT: 1.0 A**



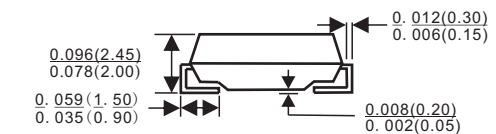
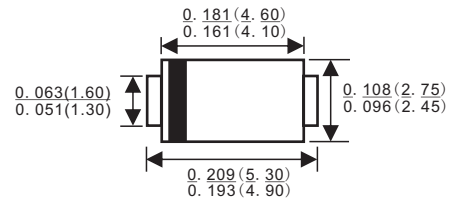
### Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

### Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

### SMA/DO-214AC



Dimensions in inches and(millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

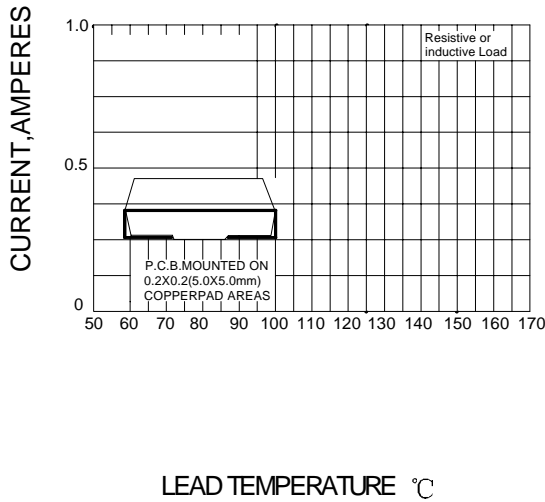
Ratings at 25°C ambient temperature unless otherwise specified

| Device marking code  |                 | SS12          | SS13 | SS14 | SS15 | SS16 | SS18 | SS19 | SS110 | UNITS              |
|--|-----------------|---------------|------|------|------|------|------|------|-------|--------------------|
| Maximum repetitive peak reverse voltage  | $V_{RRM}$       | 20            | 30   | 40   | 50   | 60   | 80   | 90   | 100   | V                  |
| Maximum RMS voltage  | $V_{RWS}$       | 14            | 21   | 28   | 35   | 42   | 56   | 63   | 70    | V                  |
| Maximum DC blocking voltage  | $V_{DC}$        | 20            | 30   | 40   | 50   | 60   | 80   | 90   | 100   | V                  |
| Maximum average forward rectified current at $T_L=90^\circ\text{C}$                                    | $I_{F(AV)}$     | 1.0           |      |      |      |      |      |      |       | A                  |
| Peak forward surge current 8.3ms single half-sine-wave   | $I_{FSM}$       | 40            |      |      |      |      |      |      |       | A                  |
| Maximum instantaneous forward voltage at $I_{FM}=1.0\text{A}$ (NOTE1)                                  | $V_F$           | 0.50          |      |      | 0.75 |      | 0.85 |      |       | V                  |
| Maximum DC reverse current $T_J=25^\circ\text{C}$ at rated DC blocking voltage $T_J=125^\circ\text{C}$ | $I_R$           | 0.2           |      |      |      | 0.5  |      |      |       | m A                |
| Maximum thermal resistance   | $R_{\theta JL}$ | 28            |      |      |      |      |      |      |       | $^\circ\text{C/W}$ |
| Operating temperature range  | $T_J$           | -55 ---- +125 |      |      |      |      |      |      |       | $^\circ\text{C}$   |
| Storage temperature range  | $T_{STG}$       | -55 ---- +150 |      |      |      |      |      |      |       | $^\circ\text{C}$   |

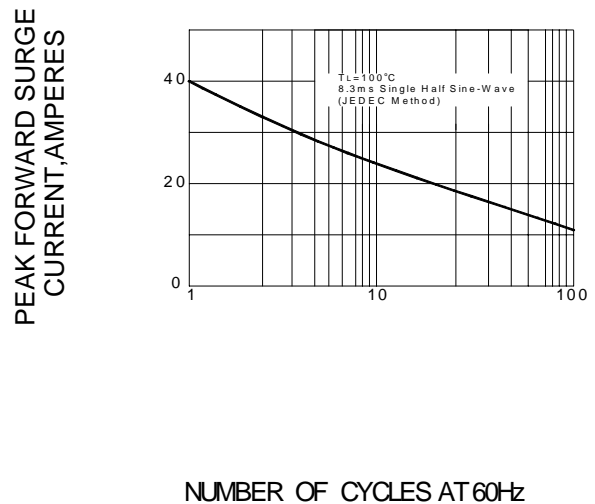
NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

## Ratings AND Characteristic Curves

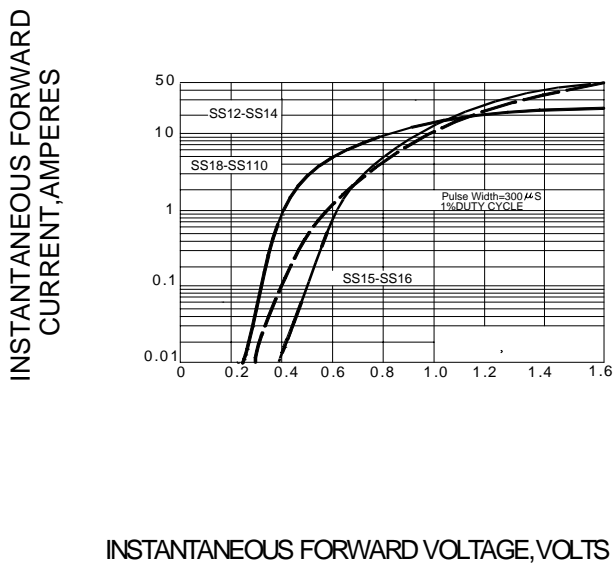
**FIG.1 – FORWARD DERATING CURVE**



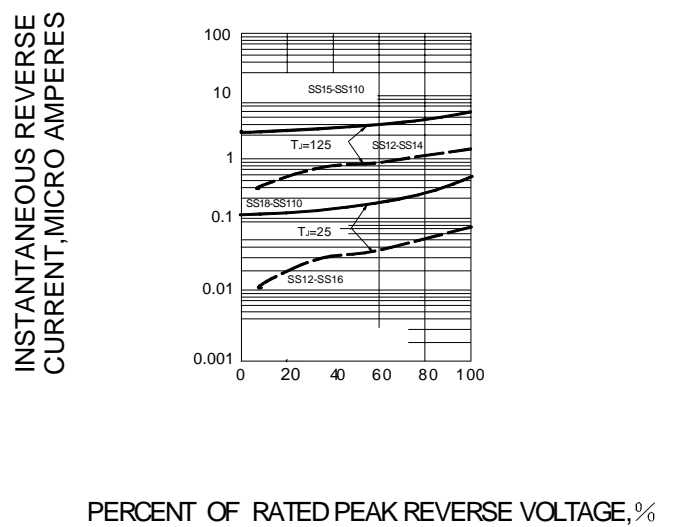
**FIG.2– PEAK FORWARD SURGE CURRENT**



**FIG.3 – TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 – TYPICAL REVERSE CHARACTERISTICS**



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