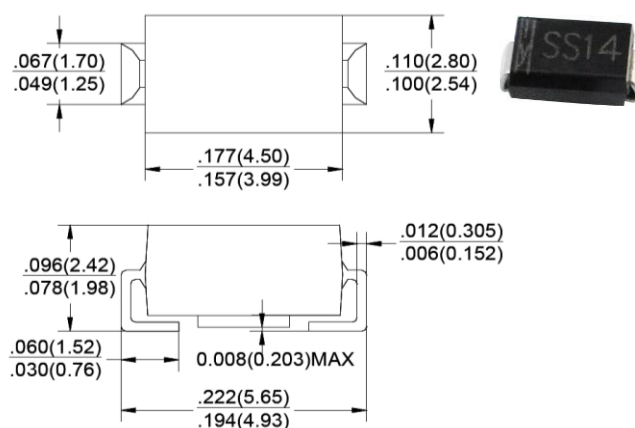


Kingtronics®**SS12 THRU SS110****SCHOTTKY BARRIER RECTIFIER****VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere****FEATURES**

- Low forward voltage drop
- Low leakage current
- High forward surge capability

MECHANICAL DATA

- Case:** SMA-J mold plastic
- Epoxy:** UL94V-0 rate flame retardant
- Polarity:** Indicated by cathode band
- Lead:** Solder plated, solderable per MIL-STD-750 method 2026
- Mounting position:** Any

SMA - J (DO-214AC)**Dimensions in inches and (millimeters)****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 current by 20%

| PARAMETER | SYMBOL | SS12 | SS13 | SS14 | SS15 | SS16 | SS18 | SS110 | UNIT |
|--|-----------------|---------------------------|------|------|------|------|------|-------|-------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum RMS Voltage | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | Volts |
| Maximum DC Blocking Voltage | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | Volts |
| Maximum Average Forward Rectified Current | $I_{(AV)}$ | 1.0 | | | | | | | Amps |
| Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method) | I_{FSM} | 30 | | | | | | | Amps |
| Maximum Instantaneous Forward Voltage at 1.0A | V_F | 0.55 | | 0.70 | | 0.85 | | Volts | |
| Maximum DC Reverse Current at rated DC Blocking Voltage | I_R | $T_A = 25^\circ\text{C}$ | 0.5 | | | | | | uA |
| | | $T_A = 100^\circ\text{C}$ | 20 | | | | | | |
| Typical Thermal Resistance (NOTE 1) | $R_{\theta JA}$ | 88 | | | | | | | pF |
| Operating Temperature Range | T_J | -55 to +125 | | | | | | | °C/W |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | °C |

1. Thermal Resistance from Junction to Ambient at $5.0 \times 5.0 \text{mm}^2$ copper pad areas.**Kingtronics**® International CompanyWebsite: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

Kingtronics®

SS12 THRU SS110

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

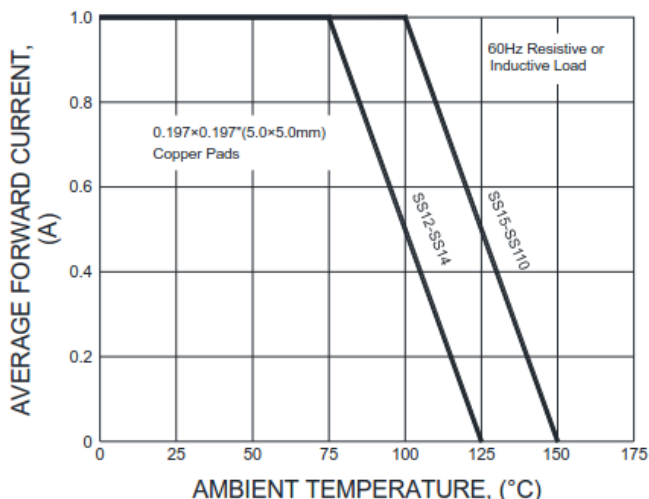


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

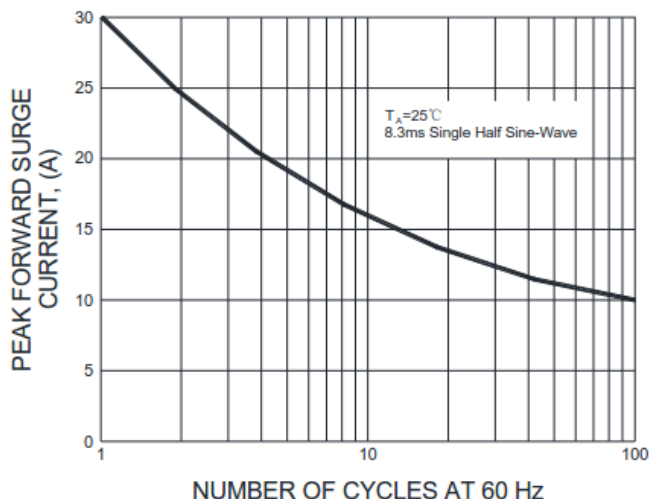


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

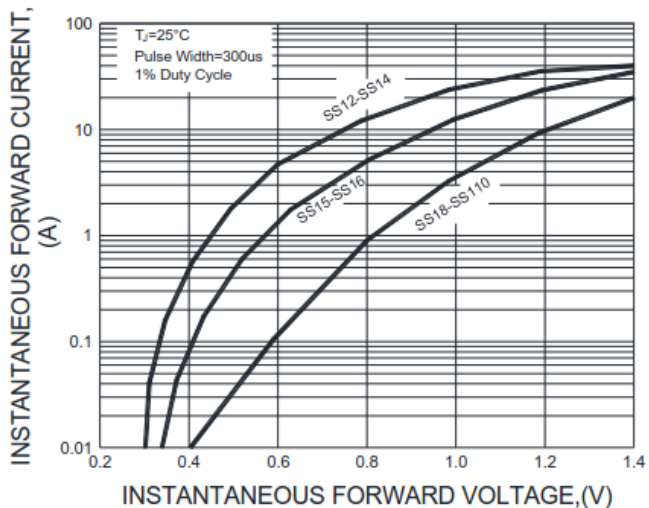
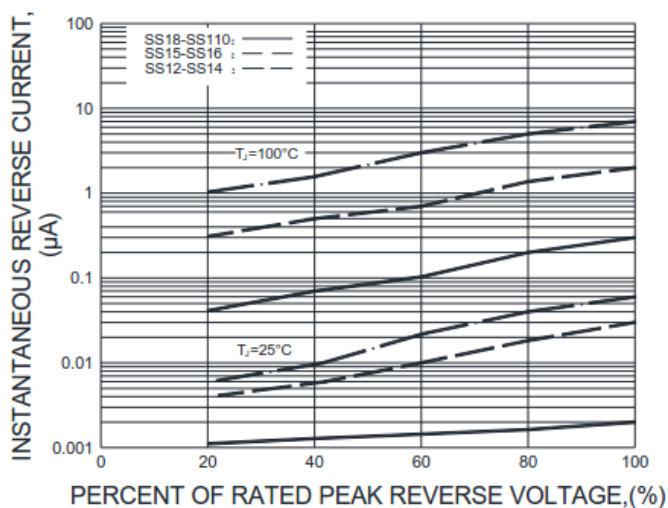


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.