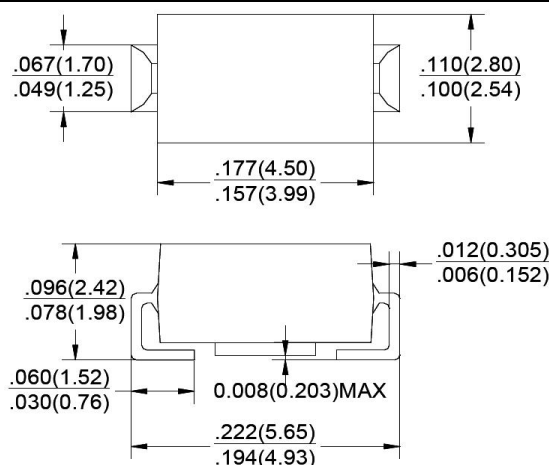


Kingtronics®**SS12 THRU SS110****SCHOTTKY BARRIER RECTIFIER****VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere****FEATURES**

- 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)**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 5.0×5.0mm² 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

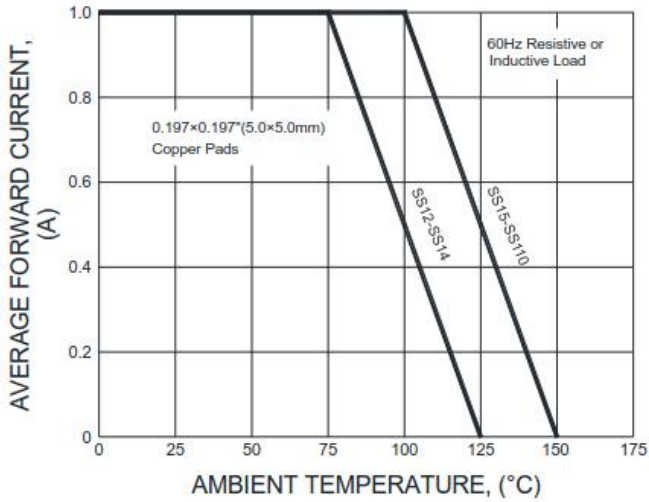


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

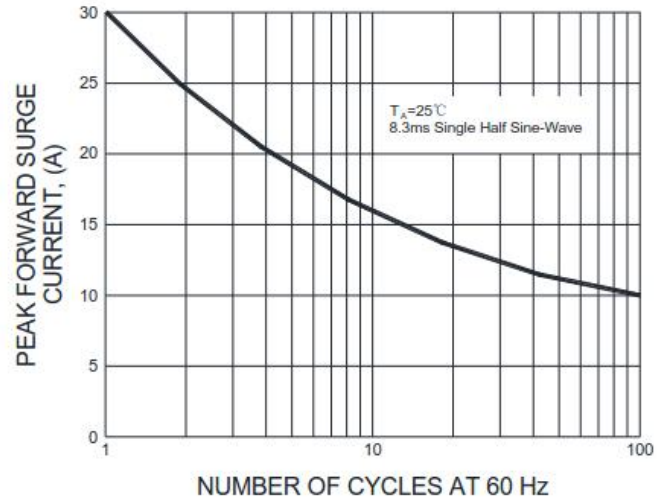


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

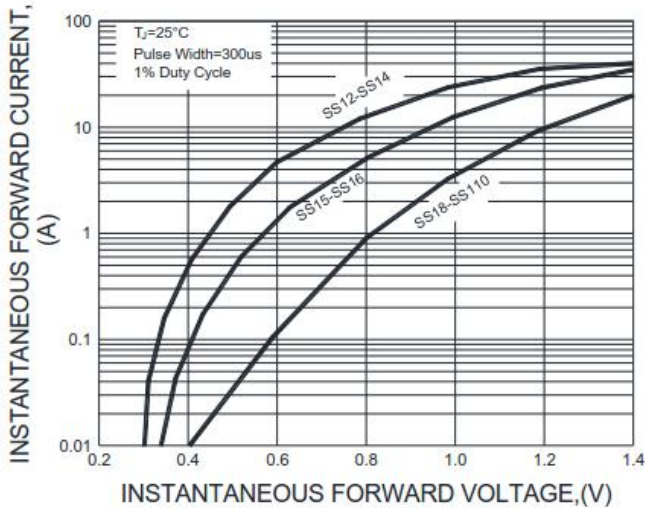
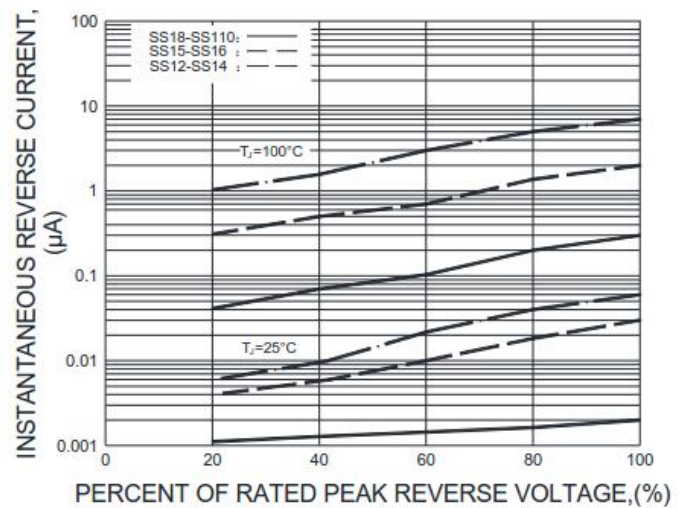


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.

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