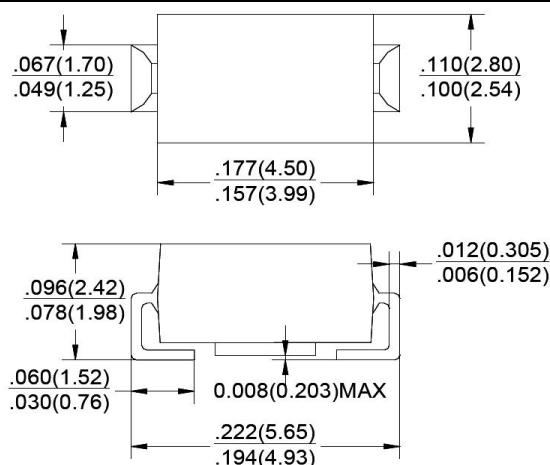


Kingtronics®**SS12 THRU SS110****SCHOTTKY BARRIER RECTIFIER****VOLTAGE RANGE 20 to 100 Volts CURRENT 1.0 Ampere****FEATURES**

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	T _A = 25°C	I _R	0.5							uA
	T _A = 100°C		20							
Typical Thermal Resistance (NOTE 1)		R _{θJA}	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 Company**
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SS12 THRU SS110

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

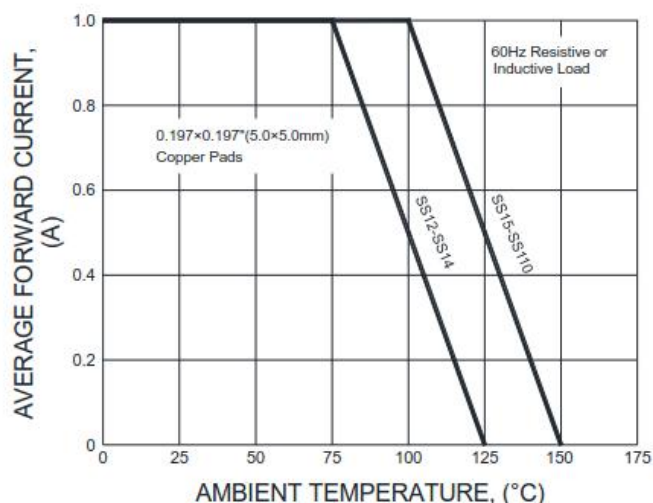


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

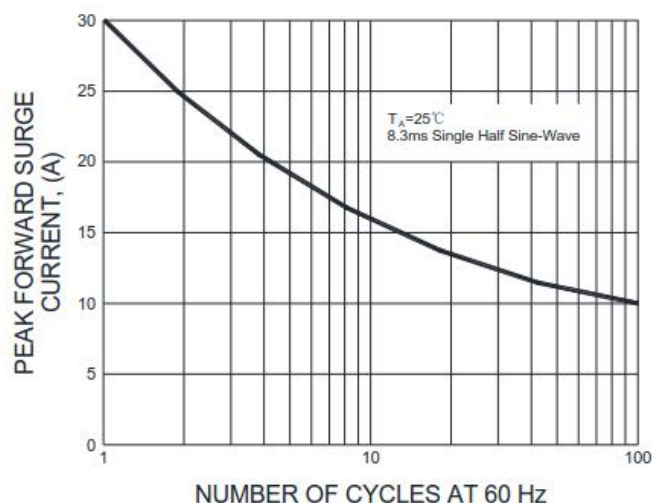


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

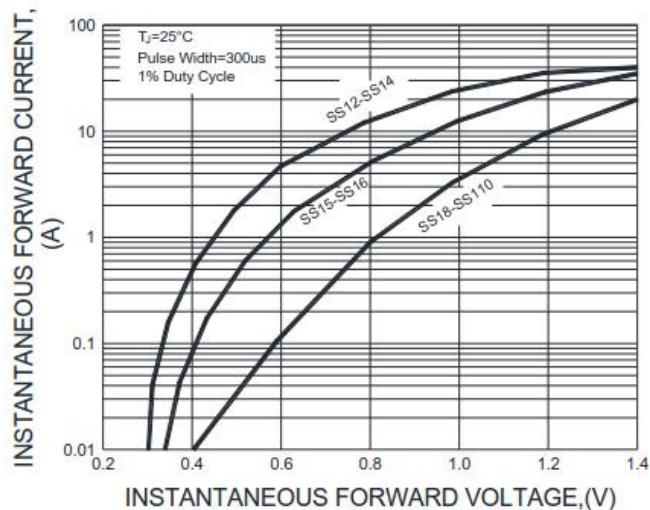
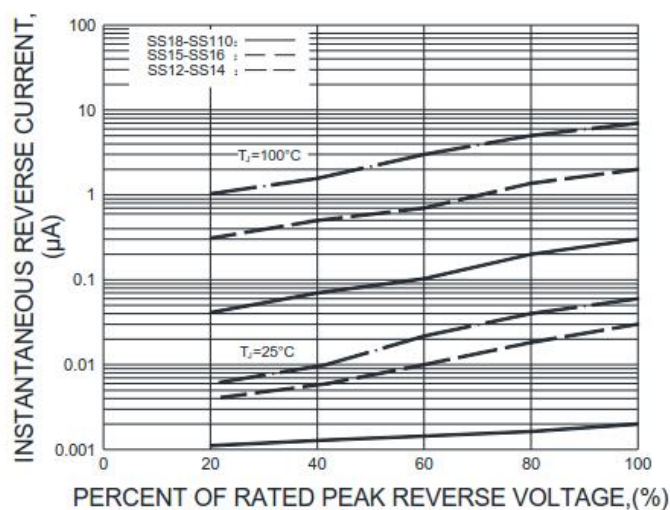


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Note: Specifications are subject to change without notice.

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