SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE 20 to 100 Volts **FORWARD CURRENT** 1.0 Ampere

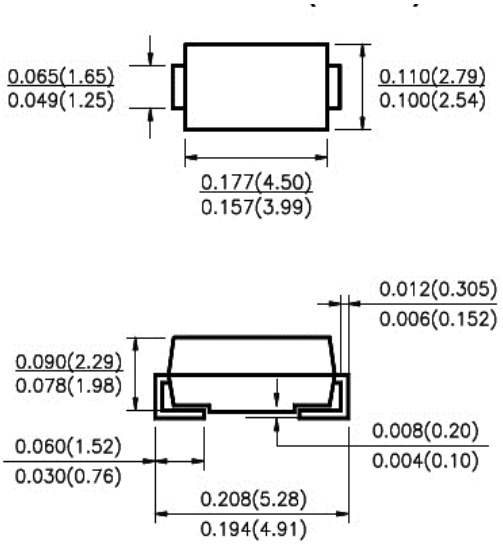
FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing, and polarity protection applications
- Guarding for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounce, 0.064 gram

DO-214AC（SMA）



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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	SS19	SS110	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	90	100	VOLTS
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	63	70	VOLTS
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	90	100	VOLTS
Maximum Average Forward Rectified Current at $T_L$see figure 1 T_L =105℃		$I_{(AV)}$	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(NOTE 1)		V_F	0.55			0.70		0.85			VOLTS
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T_A=25℃	I_R	0.5								mA
	T_A=100℃		20.0			10.0					
Typical Thermal Resistance (NOTE 2)		$R_{\theta JA}$	50								℃/W
		$R_{\theta JL}$	12								
Operating Junction Temperature		T_J	-55 to +125								℃
Storage Temperature Rang		T_{STG}	-55 to +150								℃

1- Pulse test: 300 μ s pulse width,1% duty cycle
2-PCB mounted with 0.2 × 0.2″ (5.0 × 5.0mm) copper pads

Kingtronics®

SS12 THRU SS110

RATINGS AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

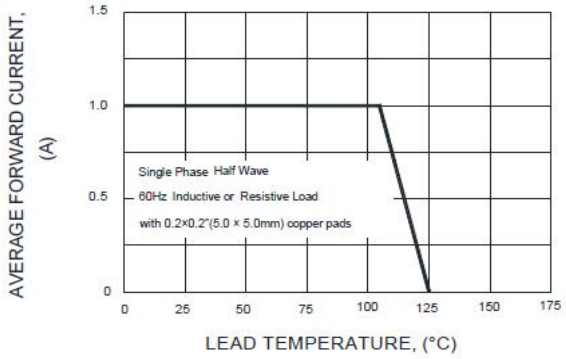


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

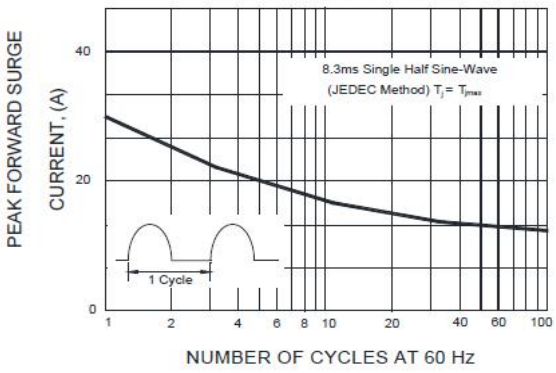


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

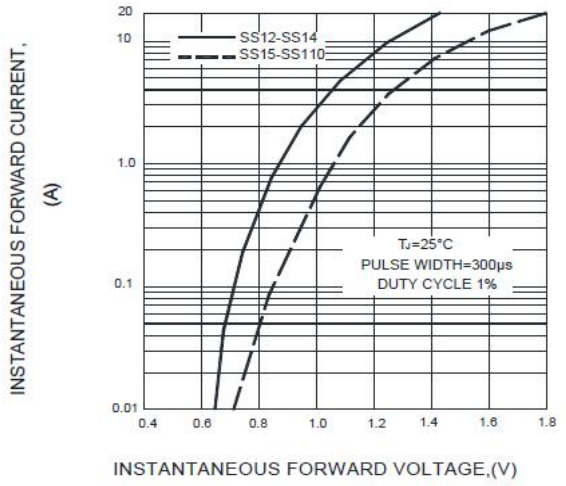


FIG.4-TYPICAL REVERSE CHARACTERISTICS

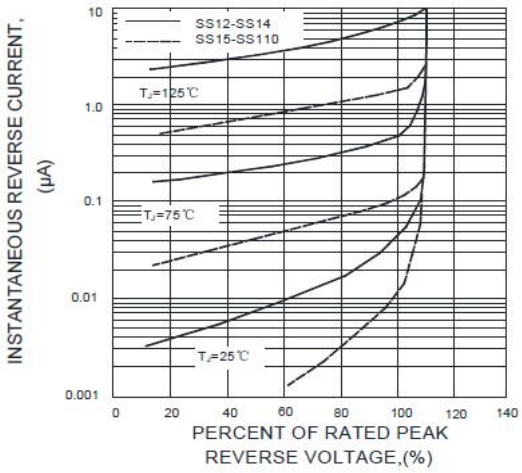
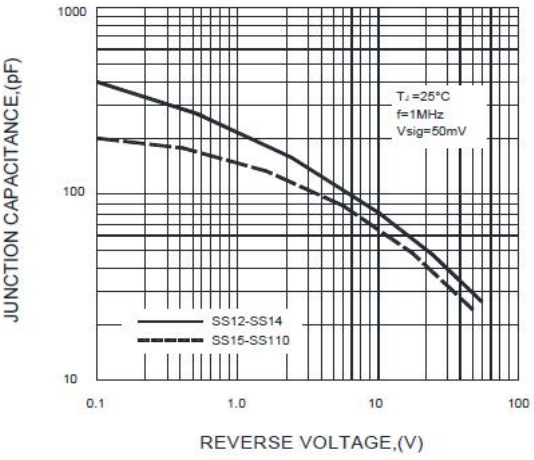


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.