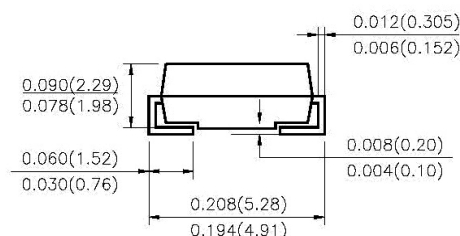
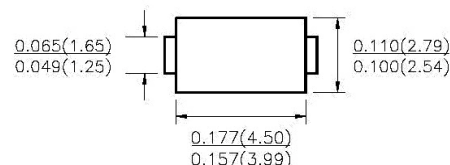


Kingtronics®**SS32A THRU SS310A****SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER****VOLTAGE RANGE** 20 to 100 Volts **CURRENT** 3.0 Ampere**FEATURES**

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°C ambient temperature unless otherwise specified ,
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load derate current by 20%

PARAMETER	SYMBOLS	SS 32A	SS 33A	SS 34A	SS 35A	SS 36A	SS 38A	SS 39A	SS 310A	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 TL see figure 1 $T_L = 105^\circ\text{C}$	$I_{(AV)}$	3.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80								Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)	V_F	0.55			0.70		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ\text{C}$	0.5								mA
	$T_A = 100^\circ\text{C}$	20.0				10.0				
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55								°C/W
	$R_{\theta JL}$	12								
Operating Junction Temperature	T_J	-55 to +150				-55 to +150				°C
Storage Temperature Range	T_{STG}	-55 to +150								°C

1. Pulse test: 300µs pulse width, 1% duty cycle

2. PCB mounted with 0.2x0.2" (5.0 x 5.0mm) copper pads

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RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

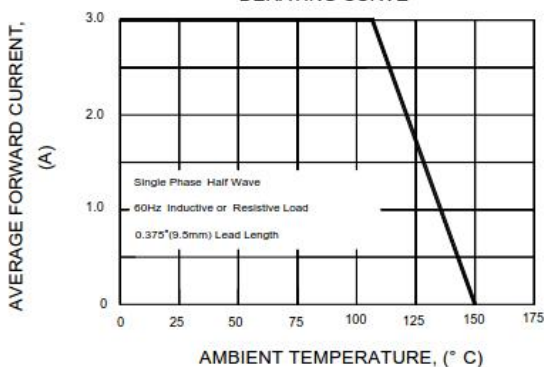


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

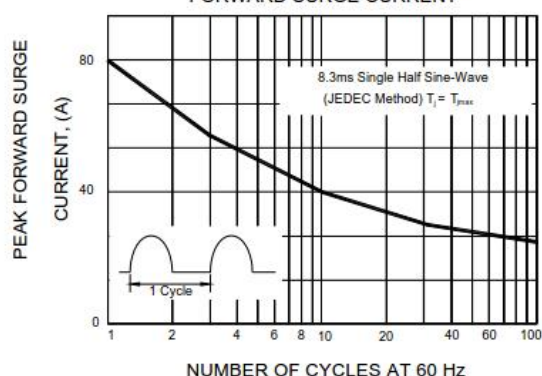


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

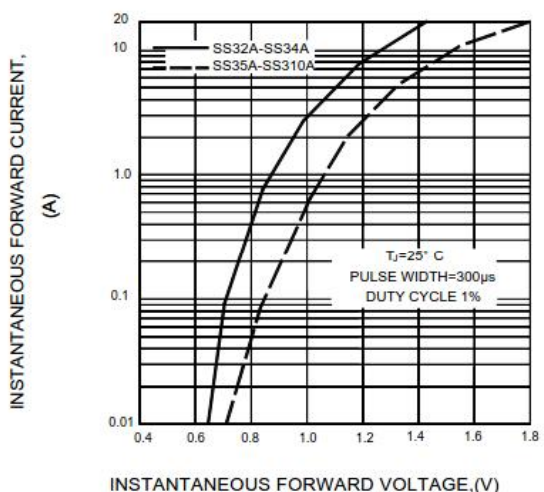


FIG.4-TYPICAL REVERSE CHARACTERISTICS

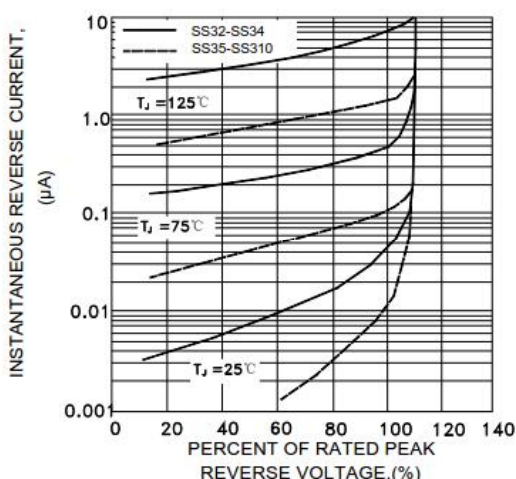
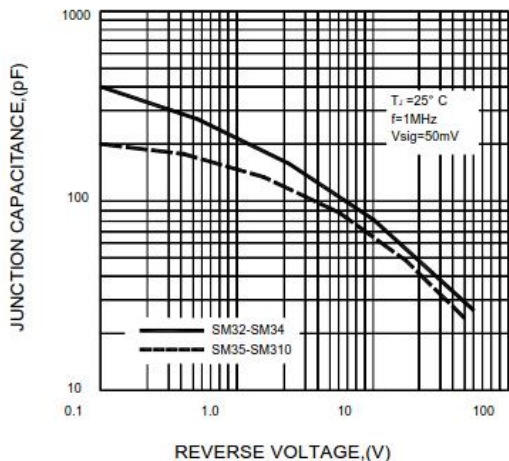


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.