Kingtronics®

SS32B THRU SS310B

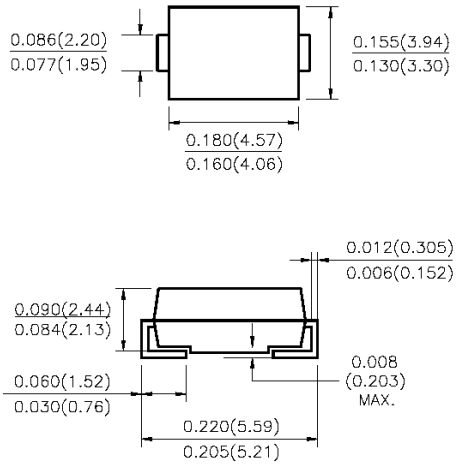
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

DO-214AA (SMB)



Dimensions in inches and (millimeters)

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

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		SYMBLS	SS 32B	SS 33B	SS 34B	SS 35B	SS 36B	SS 38B	SS 39B	SS 310B	UNIT
Maximum Repetitive Peak Reverse		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		$I_{(AV)}$	3.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on		I_{FSM}	80								Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)		V_F	0.55	0.55		0.70		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	TA = 25℃	I_R	0.5								mA
	TA = 100℃		20.0			10.0					
Typical Thermal Resistance		$R_{\theta JA}$	55								℃/W
		$R_{\theta JL}$	12								
Operating Junction Temperature		T_J	-55 to +125								℃
Storage Temperature Range		T_{STG}	-55 to +150								℃

1. Pulse test: 300μs pulse width,1% duty cycle
2. PCB mounted with 0.55”×0.55”(14mm×14mm) copper pads

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RATING AND CHRACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

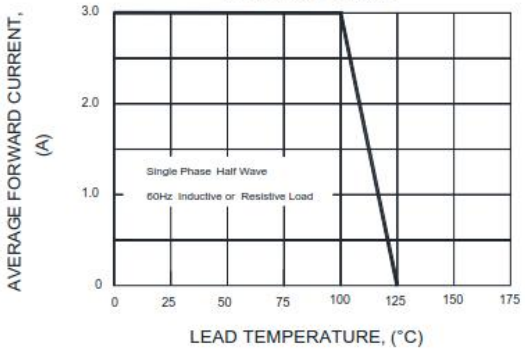


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

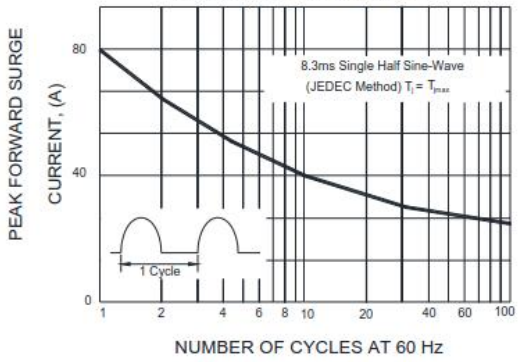


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

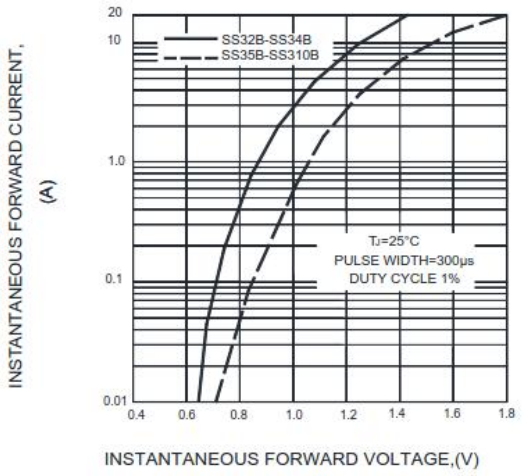


FIG.4-TYPICAL REVERSE CHARACTERISTICS

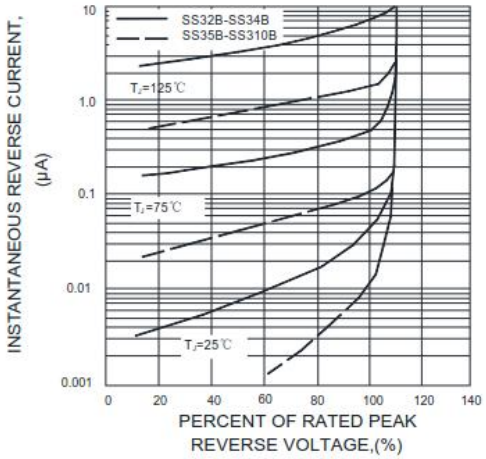
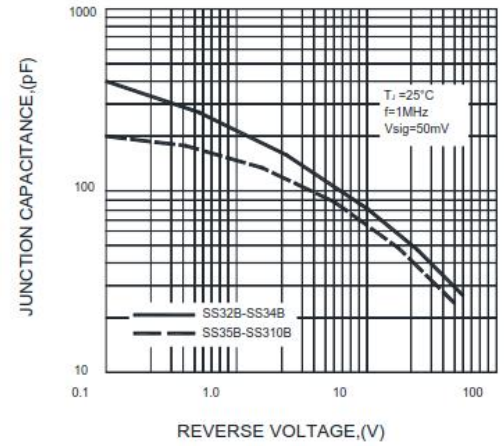


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice.