

SS32B THRU SS310B

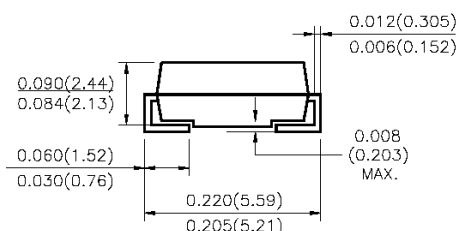
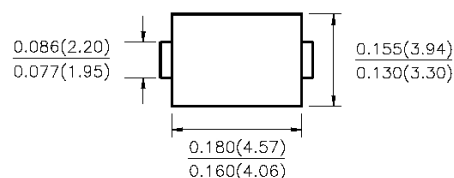
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE 20 to 100 Volts CURRENT 3.0 Ampere

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

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

DO-214AA (SMB)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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		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 at TL see figure 1 TL =105°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	0.55		0.70		0.85		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element	TA = 25°C	I _R	0.5								mA
	TA = 100°C		20.0			10.0					
Typical Thermal Resistance		R _{θJA}	55								°C/W
		R _{θJL}	12								
Operating Junction Temperature		T _J	-55 to +125								°C
Storage Temperature Range		T _{STG}	-55 to +150								°C

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

2. PCB mounted with 0.55"×0.55"(14mm×14mm) copper pad

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RATING AND CHARACTERISTIC CURVES SS32B THRU SS310B

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

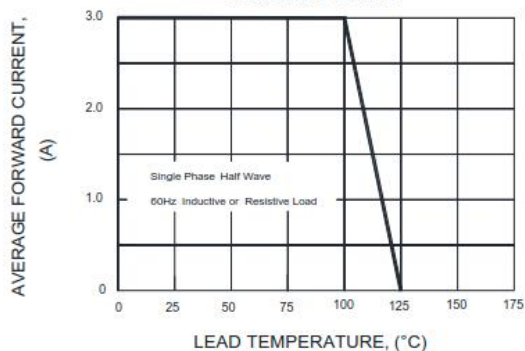


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

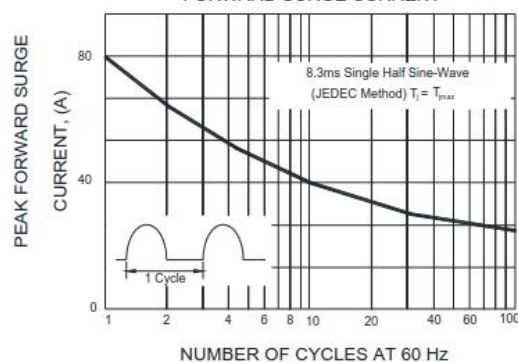


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

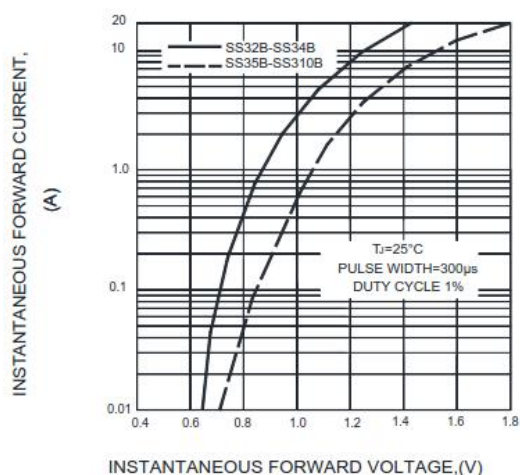


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

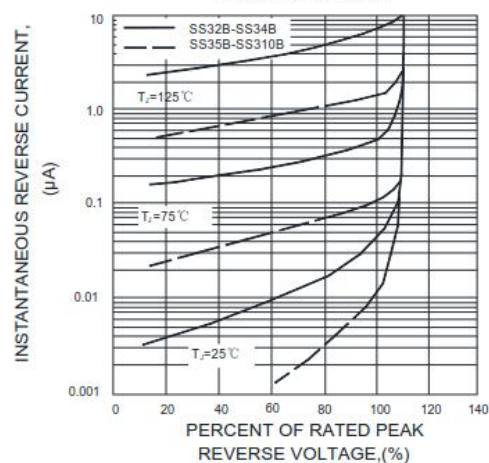
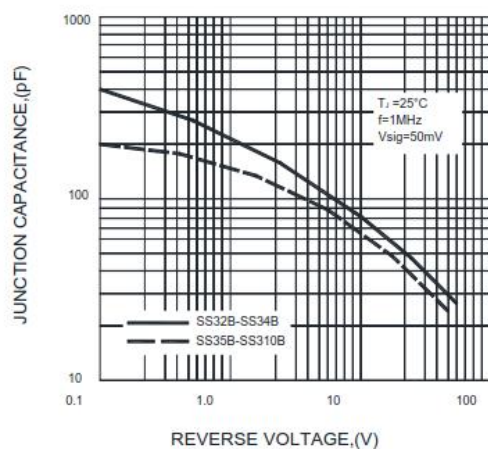


FIG.5-TYPICAL JUNCTION CAPACITANCE



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.