

**SCHOTTKY BARRIER RECTIFIER**

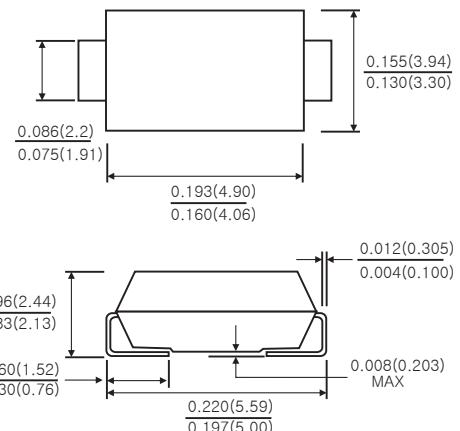
Reverse Voltage – 300Volts

Forward Current – 3.0Amperes

**■ FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction ,majority carrier conduction
- Low power loss ,high efficiency
- High current capability ,low forward voltage drop
- High surge capability
- For use in low voltage ,high frequency inverters,
- free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- Componentin accordance to RoHS2011/65/EU


 RoHS  
COMPLIANT

**SMB(DO-214AA)**


Dimensions in inches and (millimeters)

**■ MECHANICAL DATA**

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end

**■ MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

Parameters	Symbols	SS330B		Units
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	300		Volts
Maximum RMS voltage	V <sub>RMS</sub>	210		Volts
Maximum DC blocking voltage	V <sub>DC</sub>	300		Volts
Maximum average forward rectified current (see fig.1)	I <sub>(AV)</sub>	3.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated T <sub>L</sub> )	I <sub>FSM</sub>	80.0		Amps
Maximum Forward voltage at 3.0 A(Note 1 )	V <sub>F</sub>	0.98		Volts
Maximum instantaneous reverse current at rated DC blocking voltage (Note 1)	T <sub>j</sub> =25°C	IR	5	µA
	T <sub>j</sub> =125°C	IR	20	mA
Typical junction capacitance(Note 3)	C <sub>J</sub>	60		pF
Typical thermal resistance (Note 2)		R <sub>θJA</sub> R <sub>θJL</sub>	70 18	°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to+150		°C
Storage temperature range	T <sub>STG</sub>	-55 to+150		°C

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

2. Unit mounted on PC board with 5.0mm×5.0 mm (0.013 mm thick) copper pads as heat sink

3.Measured at 1MHz and reverse voltage of 4.0 volts

## ■ RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

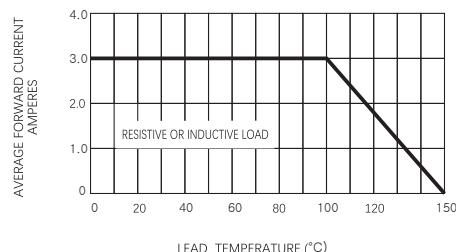


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

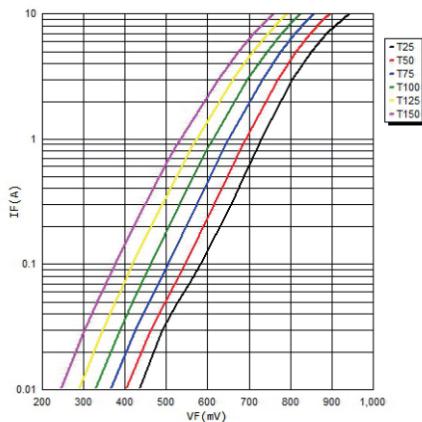


FIG.5-TYPICAL JUNCTION CAPACITANCE

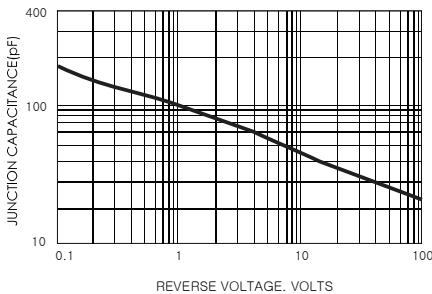


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

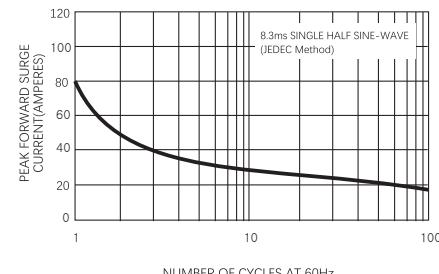


FIG.4-TYPICAL REVERSE CHARACTERISTICS

