

# ABS210-E

**SINGLE PHASE GLASS PASSIVATED  
SURFACE MOUNT FLAT BRIDGE RECTIFIER**  
VOLTAGE: 1000V                      CURRENT: 2.0A

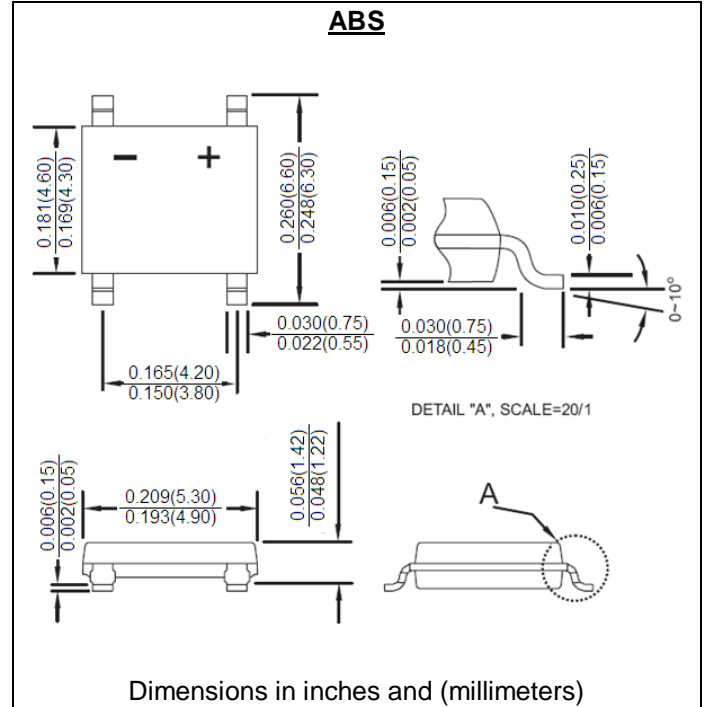


## FEATURE

- Ideal for printed circuit board
- Glass passivated chip
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation
- High temperature soldering guaranteed: 260°C/10 seconds
- Halogen Free

## MECHANICAL DATA

- Terminal: Plated leads solderable per J-STD-002
- Case: UL-94 Class V-0 recognized Halogen Free Epoxy
- Polarity: Polarity symbol marked on body



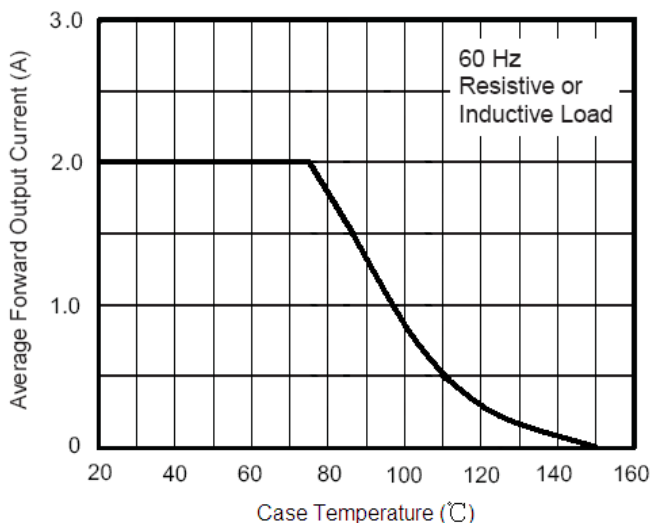
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

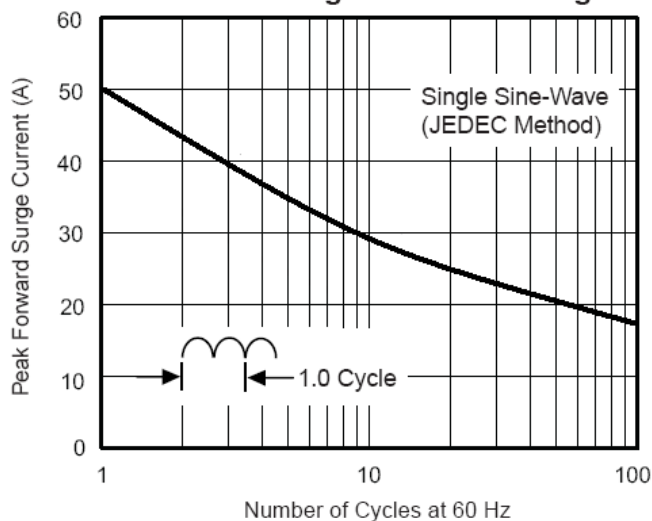
	Symbol	ABS210-E	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	700	V
Maximum DC blocking Voltage	V <sub>DC</sub>	1000	V
Maximum average forward rectified output current	I <sub>f(av)</sub>	2.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	50	A
Rating for fusing(t<8.3ms)	I <sup>2</sup> t	10.65	A <sup>2</sup> sec
Maximum Instantaneous Forward Voltage at forward current 1.0A	V <sub>f</sub>	1.0	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I <sub>r</sub>	5.0 100.0	μA
Typical Thermal resistance Junction to case	R <sub>th(jc)</sub>	13	°C/W
Storage and Operating Junction Temperature Range	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150	°C

Note:

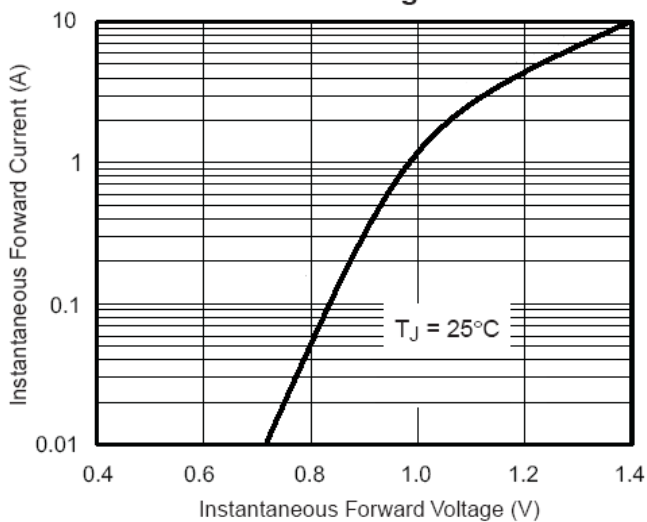
**Fig. 1 - Derating Curve Output Rectified Current**



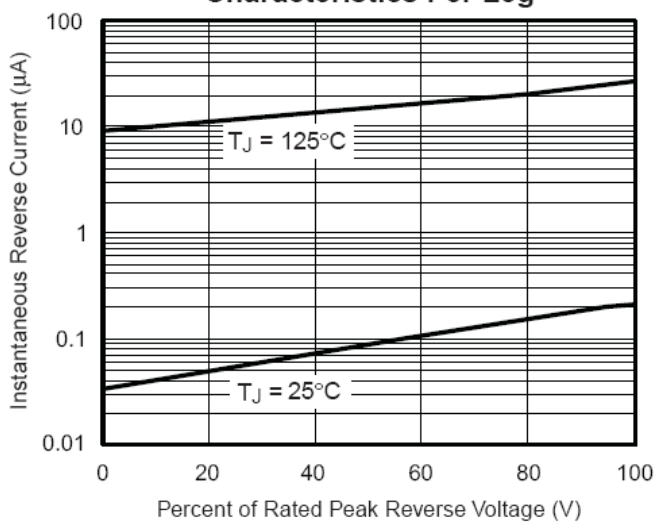
**Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Leg**



**Fig. 3 - Typical Forward Characteristics Per Leg**



**Fig. 4 - Typical Reverse Leakage Characteristics Per Leg**



**Fig. 5 - Typical Junction Capacitance Per Leg**

