



# ABS1 THRU ABS10

## SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

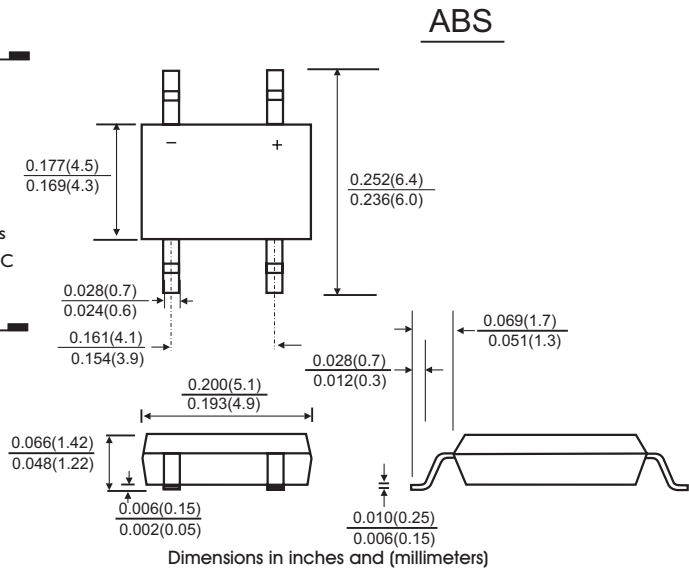
Reverse Voltage: 100 to 1000 Volts  
Forward Current: 1.0 Amps

### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260 °C/10 seconds at terminals
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### MECHANICAL DATA

- Case: ABS molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting Position: Any
- Weight: 0.0044ounce, 0.125 gram



### ABS

### 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%.)

	Symbols	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current	I(AV)	1.0						Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	30						Amps
Maximum Instantaneous Forward Voltage at 0.4 A DC	V <sub>F</sub>	0.95						Volts
Maximum DC Reverse Current at rated DC blocking voltage	T <sub>A</sub> =25 °C	10						μA
	T <sub>A</sub> =125 °C	500						
Typical junction capacitance(Note 1)	C <sub>J</sub>	25						pF
Typical thermal resistance(Note 2)	R <sub>θJA</sub>	62						K/W
Operating junction and storage temperature range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150						°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0 Volts.

2. Thermal resistance junction to ambient.

# RATINGS AND CHARACTERISTIC CURVES AB1S THRU AB10S

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

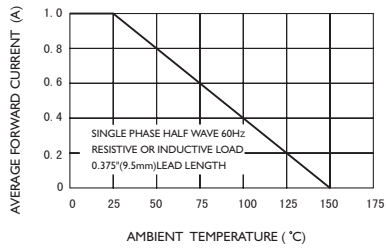


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

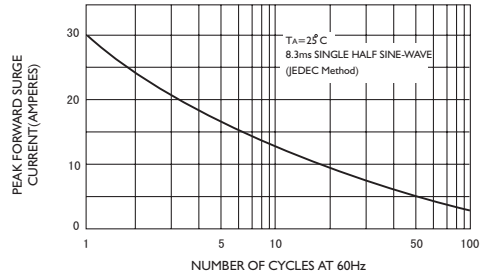


FIG3-TYPICAL JUNCTION CAPACITANCE

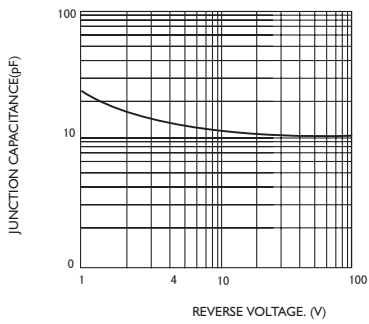


FIG4-TYPICAL FORWARD CHARACTERISTICS

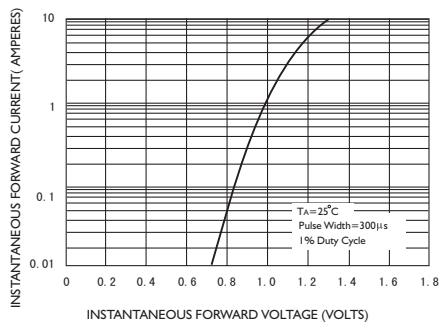


FIG.5-TYPICAL REVERSE CHARACTERISTICS

