

SILICON BRIDGE RECTIFIERS

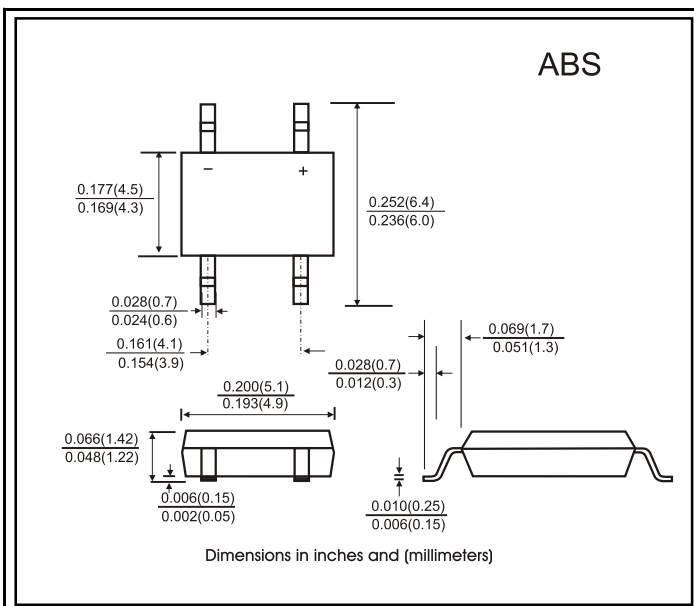
VOLTAGE RANGE: 100 --- 1000 V
CURRENT: 1.0 A

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		Symbols	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	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 _{FSM}	30						Amps
Maximum Instantaneous Forward Voltage at 1.0 A DC		V _F	0.95						Volts
Maximum DC Reverse Current at rated DC blocking voltage	T _A =25 °C	I _R	10						μ A
	T _A =125 °C		500						
Typical junction capacitance(Note2)		C _J	25						pF
Typical thermal resistance(Note 3)		R _{θJA}	62						K/W
Operating junction and storage temperature range		T _J T _{STG}	-55 to +150						°C

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

2. Thermal resistance from junction to ambient.

FIG.1-TYPRCAL FORWARD CURRENT DERATING CURVE

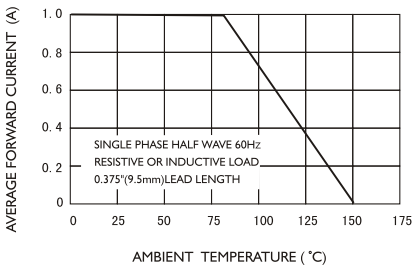


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

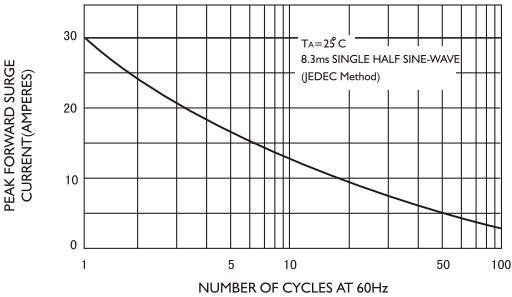


FIG3-TYPICAL JUNCTION CAPACITANCE

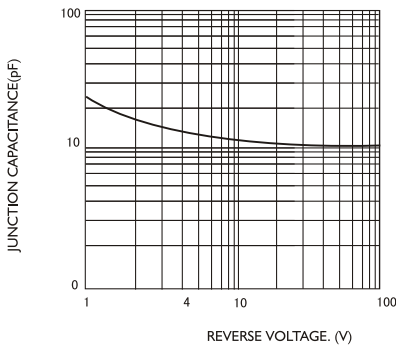


FIG4-TYPICAL FORWARD CHARACTERISTICS

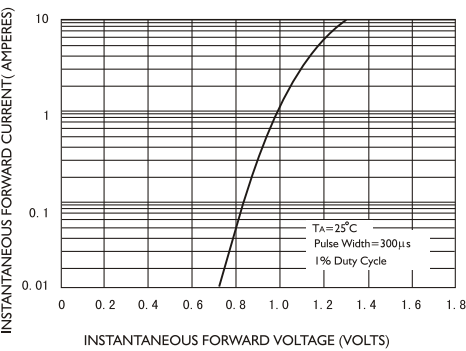


FIG.5-TYPICAL REVERSE CHARACTERISTICS

