

1.0A Single-Phase Glass Passivated Bridge Rectifiers

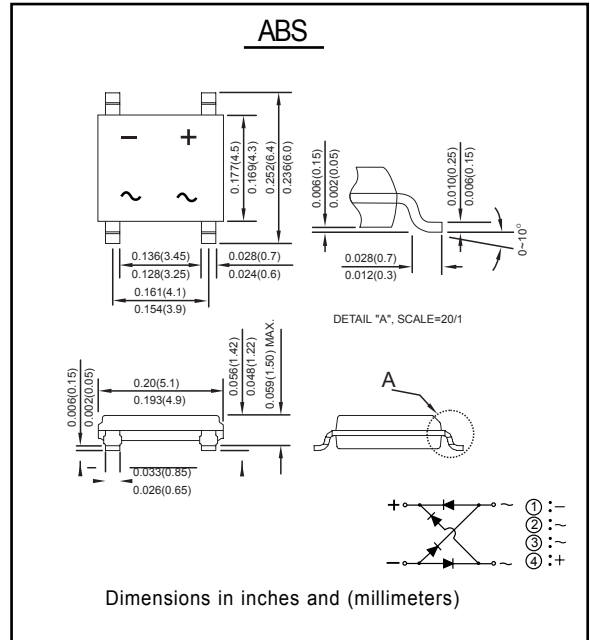
Rectifier Reverse Voltage 50 to 1000V

FEATURES

- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed :
260°C/ 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension

MECHANICAL DATA

- Case : Molded Plastic
- Epoxy : Device has UL flammability classification 94V-0
- Mounting Position : Any
- Marking : Type Number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	ABS1	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	1000	V
Working Peak Reverse Voltage	V_{RWM}							
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	V
Average Rectified Output Current -On glass-epoxy P.C.B. -On aluminum substrate	I_O	0.8 1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30						A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	10						A ² s
Forward Voltage per element @ $I_F = 0.4A$	V_{FM}	0.95						V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_{RM}	10 150						μA
Typical Junction Capacitance per leg (Note 2)	C_j	25						pF
Typical Thermal Resistance per leg (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	62.5 25						$^\circ C/W$
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150						$^\circ C$

Note: 1. On aluminum substrate P.C.B. with an area of 0.8×0.8" (20×20mm) mounted on 0.05×0.05" (1.3×1.3mm) solder pad.
2. On glass epoxy P.C.B. mounted on 0.05×0.05" (1.3×1.3mm) pads.

Rating and Characteristic Curves($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

ABS1 thru ABS10

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

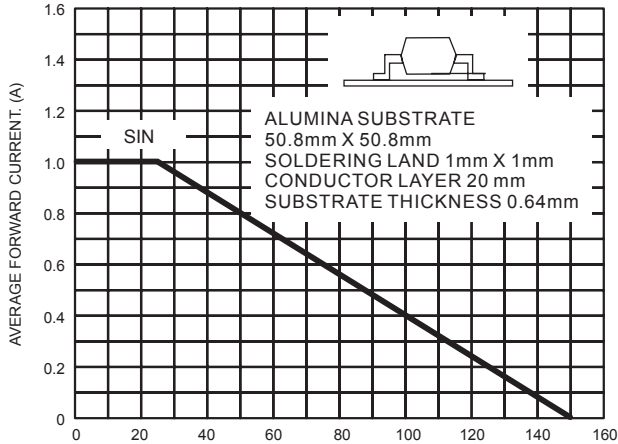


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

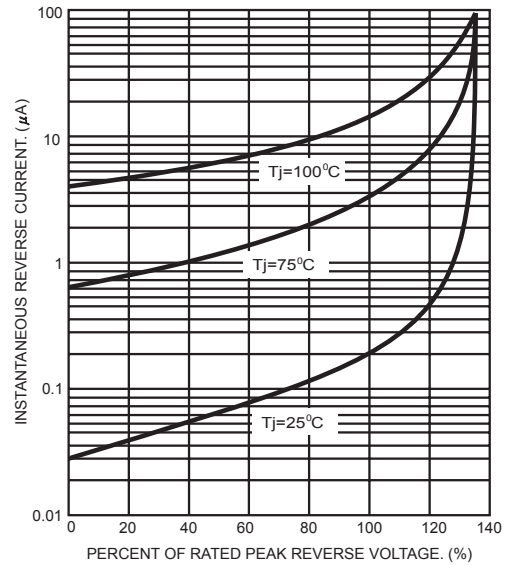


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

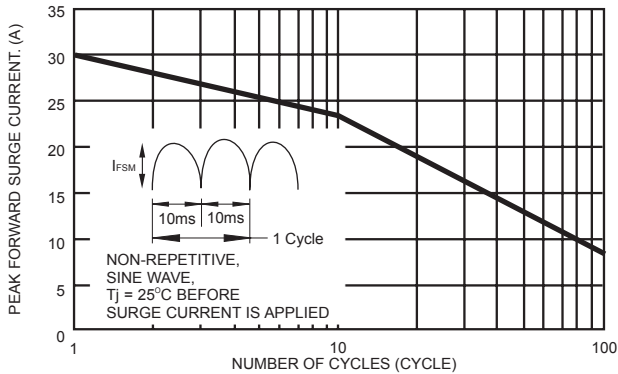


FIG.4- TYPICAL JUNCTION CAPACITANCE

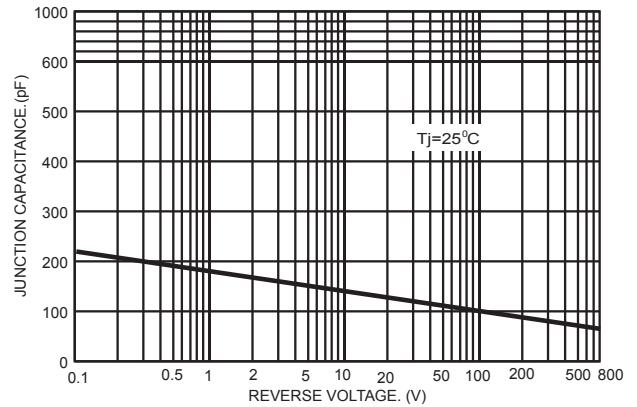


FIG.5- TYPICAL FORWARD CHARACTERISTICS

