

ABS2-ABS10

VATED PASSIVATED BRIDGE RECTIFIERS

VOLTAGE RANGE: 200-1000V CURRENT: 1A

Features

- Glass passivated junction
- Ideal for printed circuit board
 Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260 °C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- Small size, simple installation Pure tin plated terminal, Lead free.
- High surge current capability

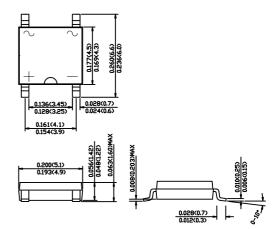
Mechanical Data

- Case: Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbols marked on case
- Mounting Position : Any





ABS



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	ABS2	ABS4	ABS6	ABS8	ABS10	Unit
Maximum repetitive peak reverse voltage	Vrrm	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	200	400	600	800	1000	V
Maximum average forward rectified current On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	lf(av)			0.8 1.0			A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм			30			A
Maximum instantaneous forward voltage drop per leg at 0.4A	Vf	0.95					V
Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=100°C	lr	5 100					uA uA
Typical thermal resistance(NOTE 3)	RθJL	25					°C/W
	Rθja	80					
Operating temperature range	TJ	-55 to +150					°C
storage temperature range	Тѕтс	-55 to +150					°C

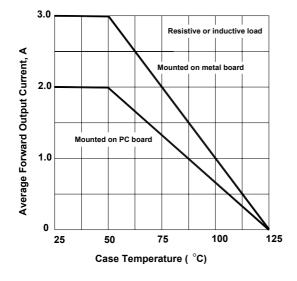
NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads

2.On aluminum substrate P.C.B. with on area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad

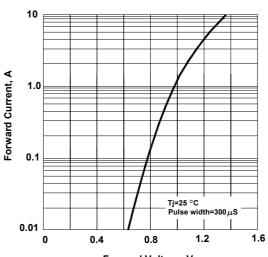
3. Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm)

copper pads.

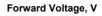


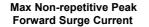


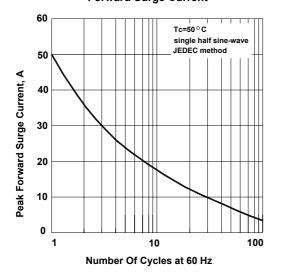
Forward Current Derating Curve



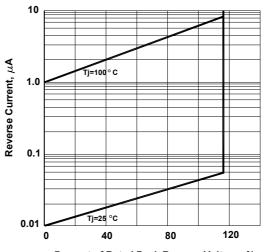
Typical Forward Characteristics, per element







Typical Reverse Characteristics, per element



Percent of Rated Peak Reverse Voltage, %