



## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
- ◆ Small size, simple installation
- ◆ High surge current capability
- ◆ Glass passivated chip junction

Mechanical Data

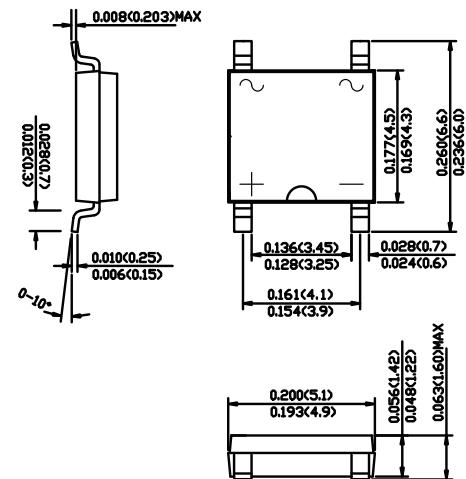
Case : JEDEC ABS Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.003 ounce, 0.098 grams



Dimensions in inches and (millimeters)

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%.

Parameter	SYMBOLS	AB14S	AB16S	AB18S	AB110S	AB120S	UNITS
		MDD AB14S	MDD AB16S	MDD AB18S	MDD AB110S	MDD AB120S	
Marking Code							
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	40	60	80	100	200	V
Maximum RMS voltage	V <sub>RMS</sub>	28	42	56	70	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	40	60	80	100	200	V
Maximum average forward rectified current	I <sub>F(AV)</sub>				1.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>		40		30		A
Maximum instantaneous forward voltage drop per leg at 1A	V <sub>F</sub>	0.55	0.70		0.85		V
Maximum DC reverse current      T <sub>A</sub> =25°C at rated DC blocking voltage      T <sub>A</sub> =100°C	I <sub>R</sub>	0.3 10		0.2 5	0.1 2		mA mA
Typical thermal resistance	R <sub>θJA</sub>			95			°C/W
Typical junction capacitance	C <sub>J</sub>	110		80			pF
Operating temperature range	T <sub>J</sub>			-55 to +150			°C
storage temperature range	T <sub>STG</sub>			-55 to +150			°C

NOTE:1.Measured at 1MHz and applied reverse voltage of 4 V D.C.

2.Mounted on glass epoxy PC board with 4 X (5X5mm) copper pad.



## Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

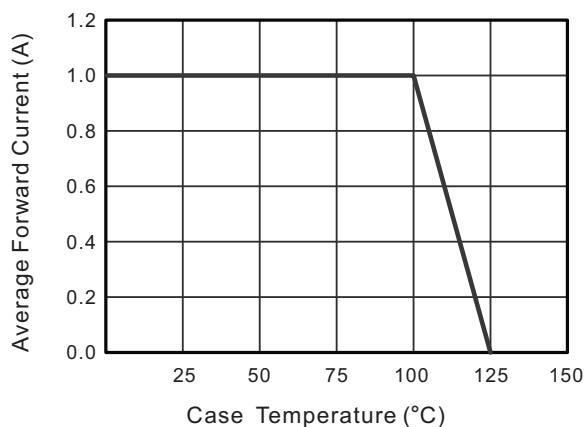


Fig.3 Typical Forward Characteristic

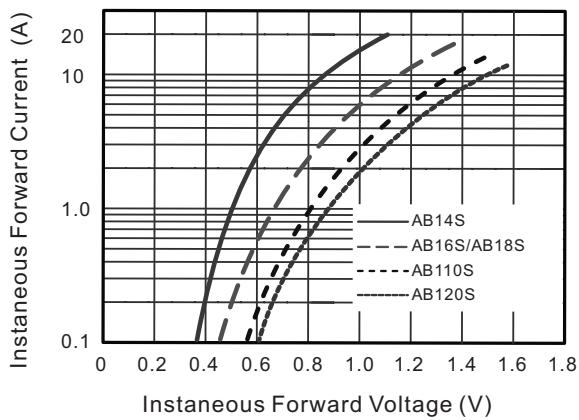
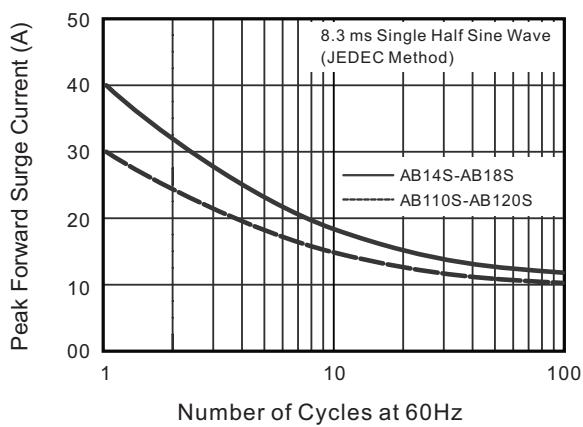


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.

Fig.2 Typical Reverse Characteristics

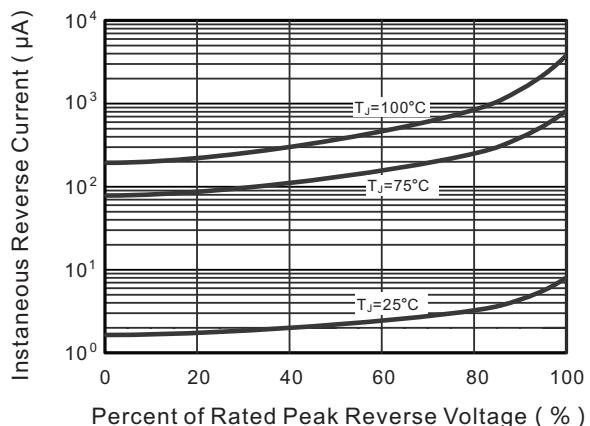


Fig.4 Typical Junction Capacitance

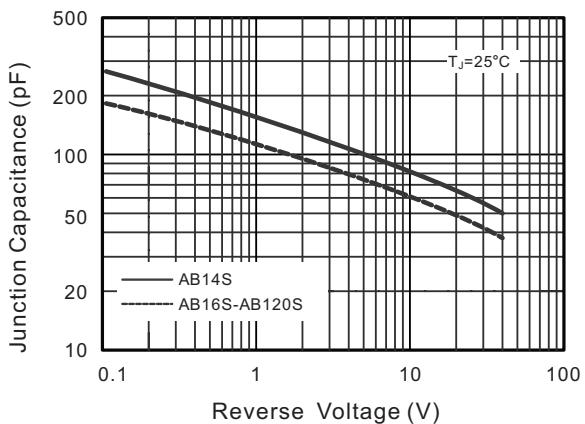


Fig.6- Typical Transient Thermal Impedance

