



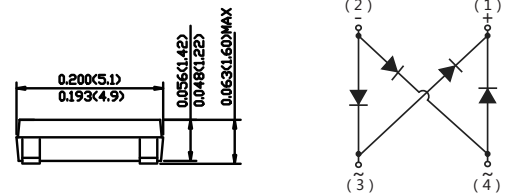
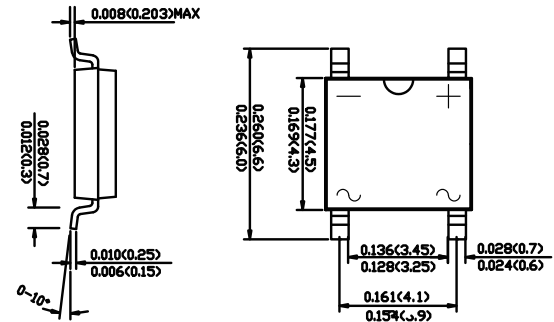
# AB24S THRU AB220S

Voltage Range - 40 to 200 V olts Current - 2.0 Ampere

## 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



Dimensions in inches and (millimeters)

### 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

### 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	AB24S	AB26S	AB28S	AB210S	AB220S	UNITS
		MDD AB24S	MDD AB26S	MDD AB28S	MDD AB210S	MDD AB220S	
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	80	100	200	V
Maximum RMS voltage	$V_{RMS}$	28	42	56	70	140	V
Maximum DC blocking voltage	$V_{DC}$	40	60	80	100	200	V
Maximum average forward rectified current	$I_{F(AV)}$	2.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50		40			A
Maximum instantaneous forward voltage drop per leg at 2A	$V_F$	0.55	0.70	0.85			V
Maximum DC reverse current at rated DC blocking voltage	$I_R$	0.5 10			0.3 5		mA mA
Typical thermal resistance	$R_{\theta JA}$	70					°C/W
Typical junction capacitance	$C_J$	220	80				pF
Operating temperature range	$T_J$	-55 to +125					°C
storage temperature range	$T_{STG}$	-55 to +150					°C

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

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



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## Ratings And Characteristic Curves

Fig.1 Forward Current Derating Curve

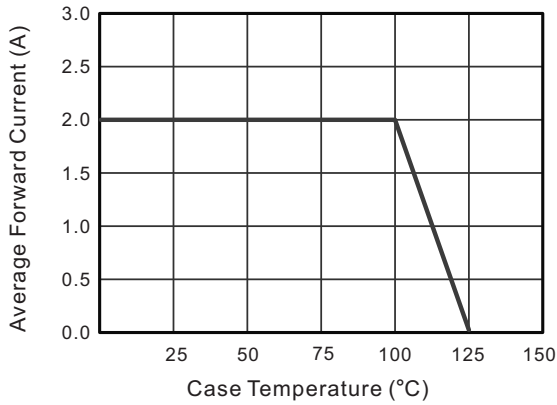


Fig.2 Typical Reverse Characteristics

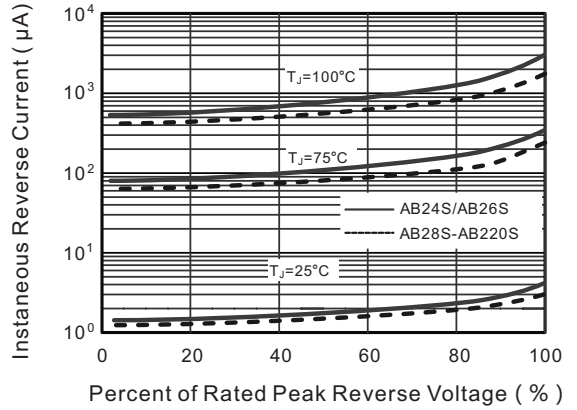


Fig.3 Typical Forward Characteristic

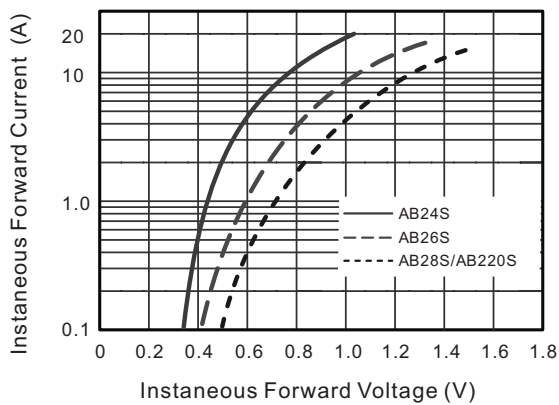


Fig.4 Typical Junction Capacitance

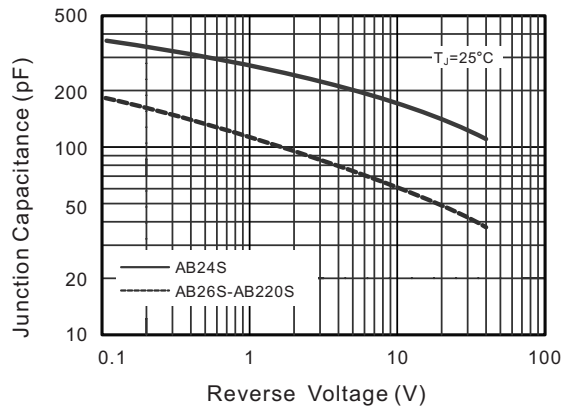
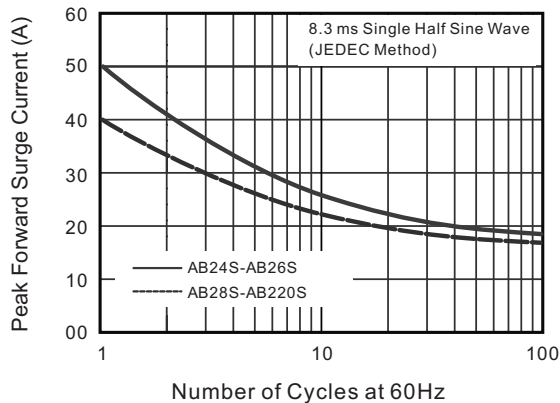


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.



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