



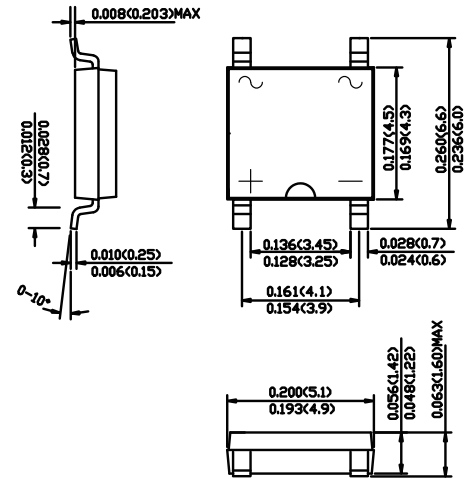
# AB34S THRU AB320S

Voltage Range - 40 to 200 V olts Current - 3.0 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
- ◆ Glass passivated chip junction



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

**Weight :** 0.003 ounce, 0.098 grams

### 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	AB34S	AB36S	AB38S	AB310S	AB320S	UNITS	
		MDD AB34S	MDD AB36S	MDD AB38S	MDD AB310S	MDD AB320S		
Marking Code								
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	$I_{F(AV)}$	3.0						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80		70				A
Maximum instantaneous forward voltage drop per leg at 3A	$V_F$	0.55	0.70	0.85		0.95	V	
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_A=25^\circ C$	0.5	0.3			mA	
		$T_A=100^\circ C$	10	5				
Typical thermal resistance	$R_{\theta JA}$	60						°C/W
Typical junction capacitance	$C_j$	250	160					pF
Operating temperature range	$T_J$	-55 to +150						°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

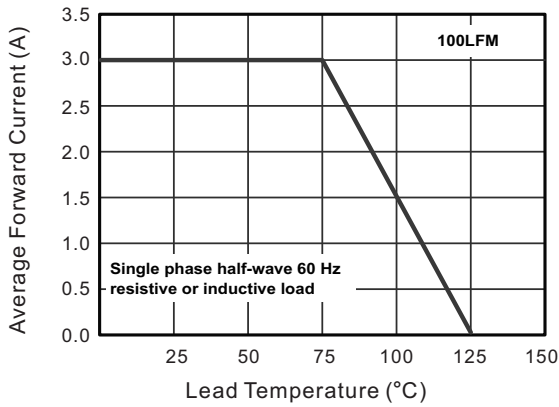


Fig.2 Typical Reverse Characteristics

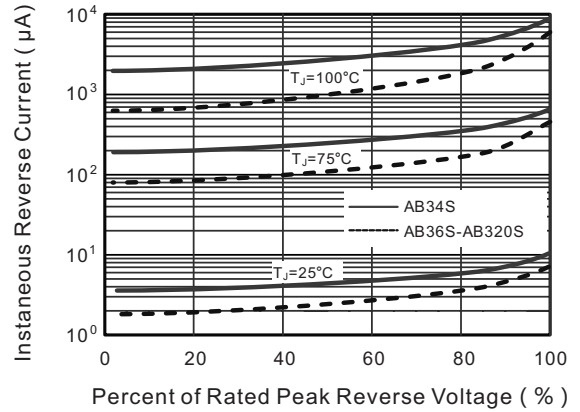


Fig.3 Typical Forward Characteristic

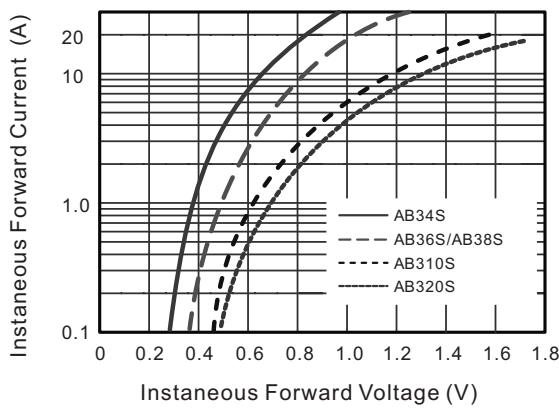


Fig.4 Typical Junction Capacitance

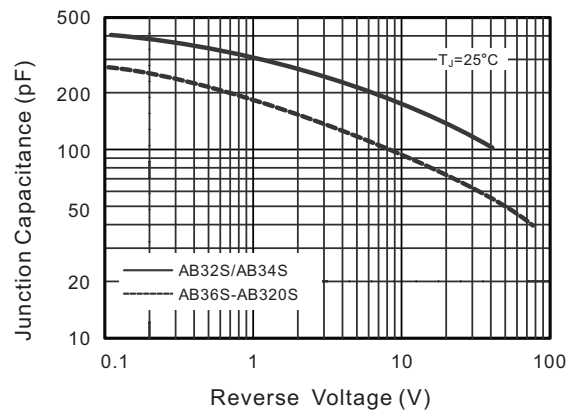
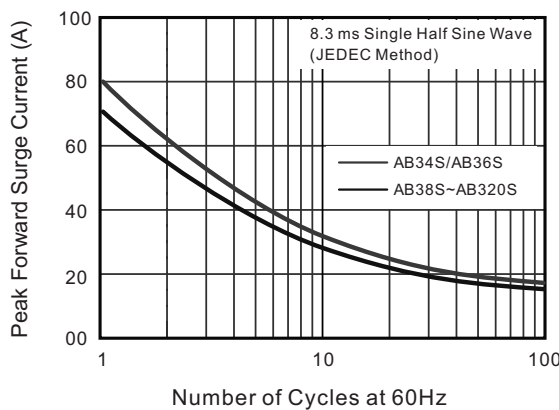


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.