



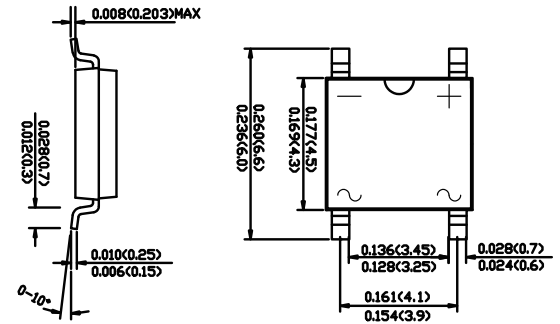
AB34S THRU AB320S

Voltage Range - 40 to 200 V olts Current - 3.0 Ampere

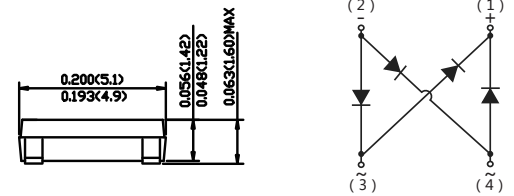
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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



Mechanical Data



Dimensions in inches and (millimeters)

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 +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

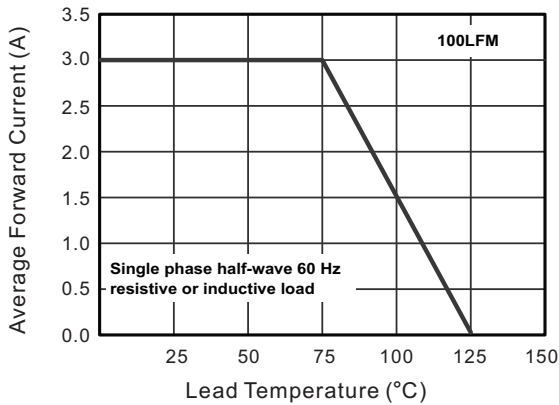


Fig.2 Typical Reverse Characteristics

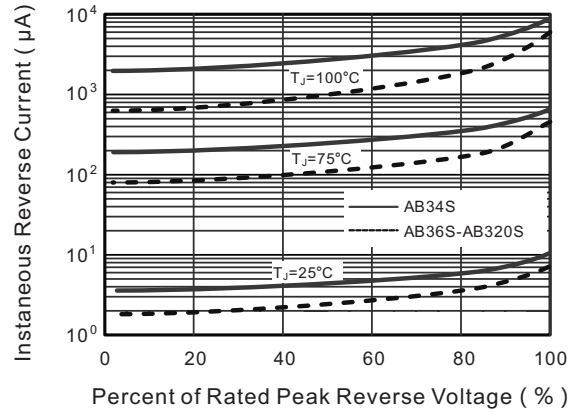


Fig.3 Typical Forward Characteristic

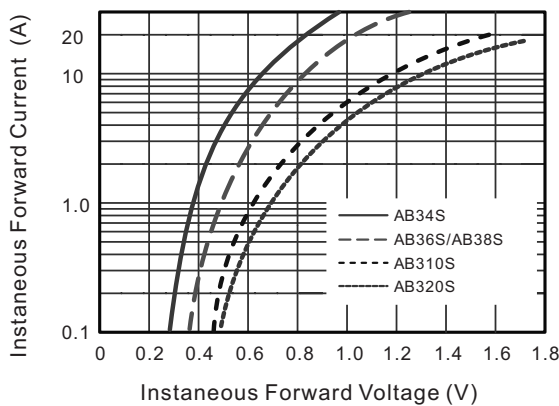


Fig.4 Typical Junction Capacitance

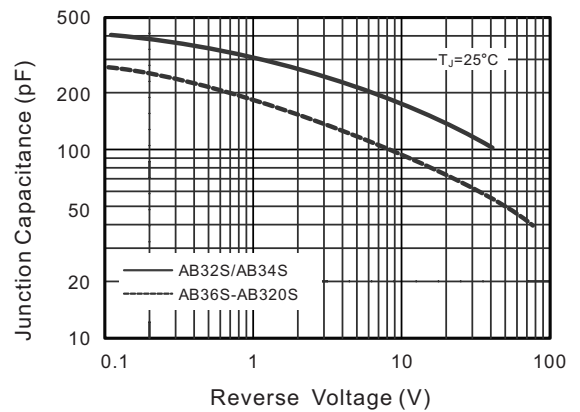
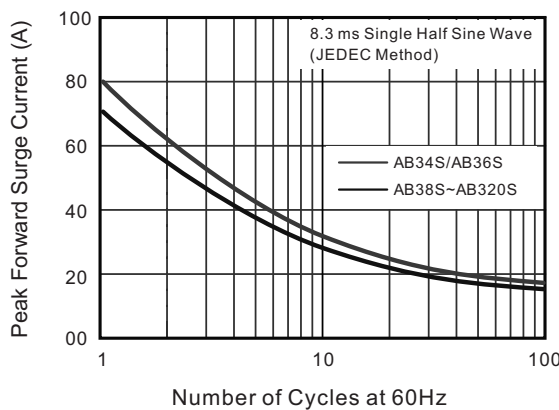


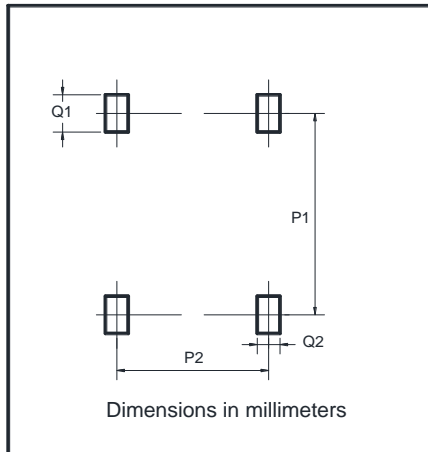
Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.



Suggested Pad Layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90

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