

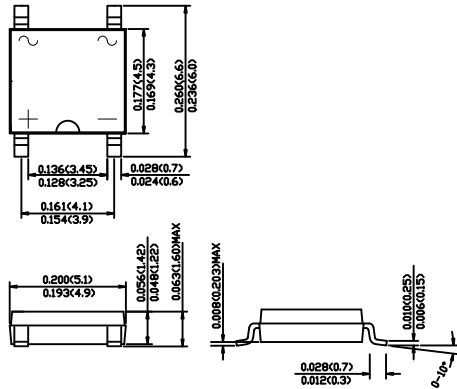


# AB34S THRU AB320S

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 40 to 200 Volts Current - 3.0 Ampere

### ABS



Dimensions in inches and (millimeters)

### FEATURES

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

## 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 derate current by 20%.

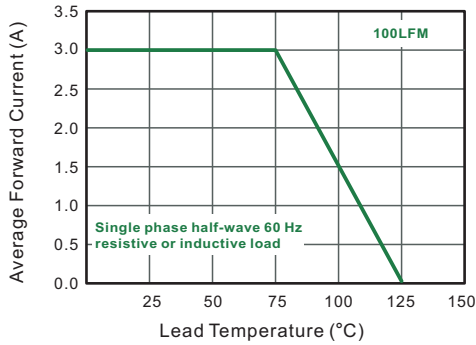
TWGMC Catalog Number	SYMBOLS	AB34S	AB36S	AB38S	AB310S	AB320S	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	40	60	80	100	200	VOLTS
Maximum RMS voltage	$V_{RMS}$	28	42	56	70	140	VOLTS
Maximum DC blocking voltage	$V_{DC}$	40	60	80	100	200	VOLTS
Maximum average forward rectified current	$I_{F(AV)}$	3.0					Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	80			70		Amps
Maximum instantaneous forward voltage drop per leg at 3A	$V_F$	0.55	0.70	0.85		0.95	Volts
Maximum DC reverse current at rated DC blocking voltage	$I_R$	$T_A=25^\circ C$	0.5		0.3		mA mA
		$T_A=100^\circ C$	10		5		
Typical junction capacitance	$C_j$	250		160			pF
Typical thermal resistance	$R_{\theta JA}$	60					°C/W
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.

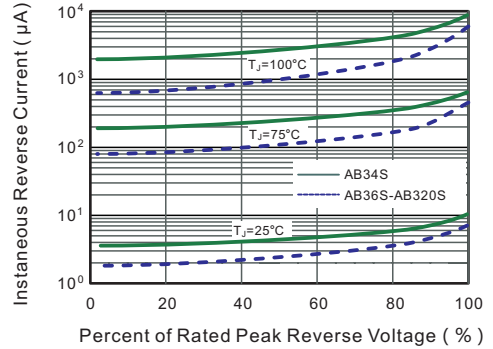
2. Mounted on glass epoxy PC board with 4 X (5X5mm) copper pad.

# RATINGS AND CHARACTERISTIC CURVES AB34S THRU AB320S

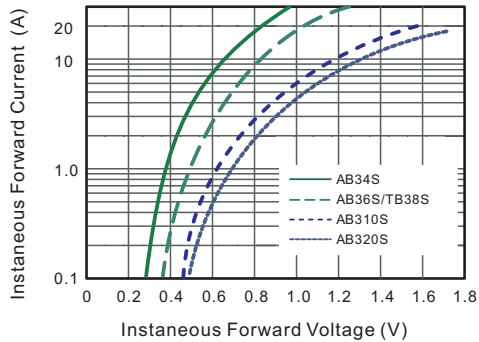
**Fig.1 Forward Current Derating Curve**



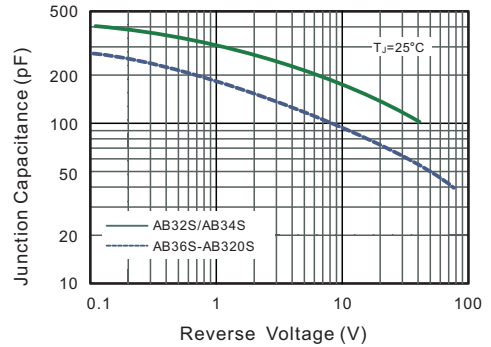
**Fig.2 Typical Reverse Characteristics**



**Fig.3 Typical Forward Characteristic**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

