



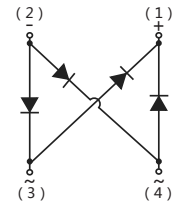
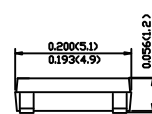
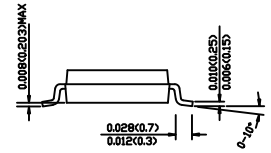
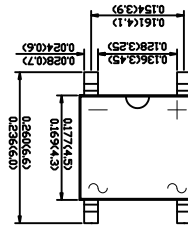
# ABF2 THRU ABF10

Voltage Range - 200 to 1000 V olts Current - 1.2Ampere

## 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 ABF Molded plastic body  
**Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026  
**Polarity** : Polarity symbol marking on body  
**Mounting Position** : 82mg 0.0029oz

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	MDD ABF2	MDD ABF4	MDD ABF6	MDD ABF8	MDD ABF10	UNITS
Marking Code							
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	140	280	420	560	700	V
Maximum DC blocking voltage	$V_{DC}$	200	400	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	1.2					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	40					A
Maximum instantaneous forward voltage drop per leg at 1.2A	$V_F$	1.1					V
Maximum DC reverse current at rated DC blocking voltage	$I_R$	5 100					uA
Typical thermal resistance	$R_{\theta JA}$	70					°C/W
	$R_{\theta JC}$	18					
Typical junction capacitance	$C_j$	18					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 PC board with 4×1.5"×1.5" ( 3.81×3.81 cm ) copper pad.

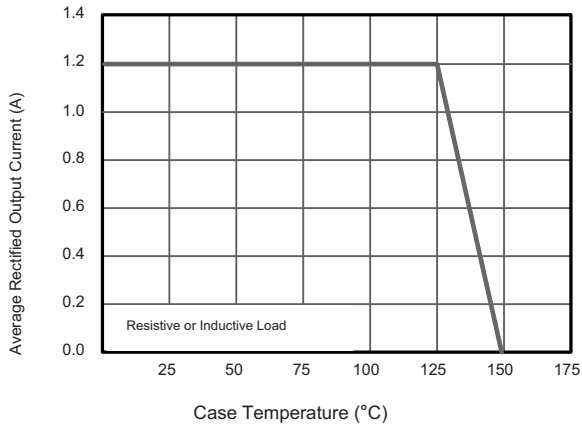


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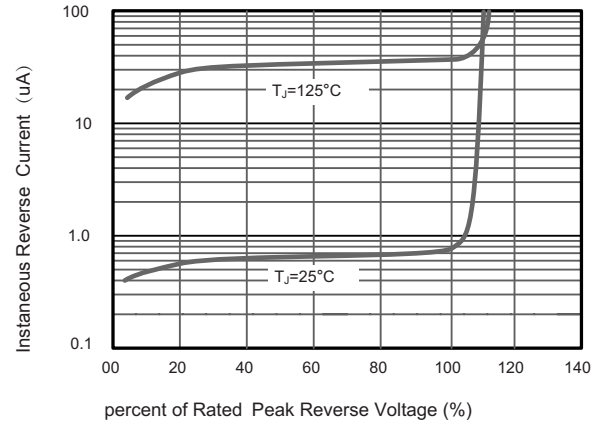
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## Ratings And Characteristic Curves

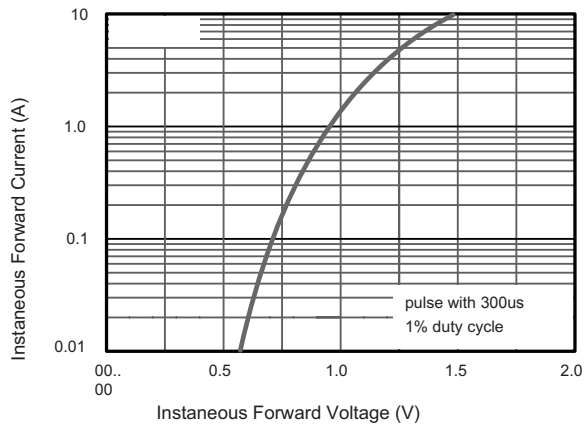
**Fig.1 Average Rectified Output Current Derating Curve**



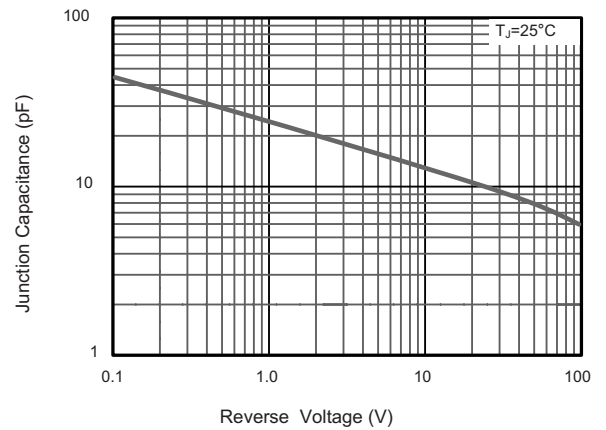
**Fig.2 Typical Reverse Characteristics**



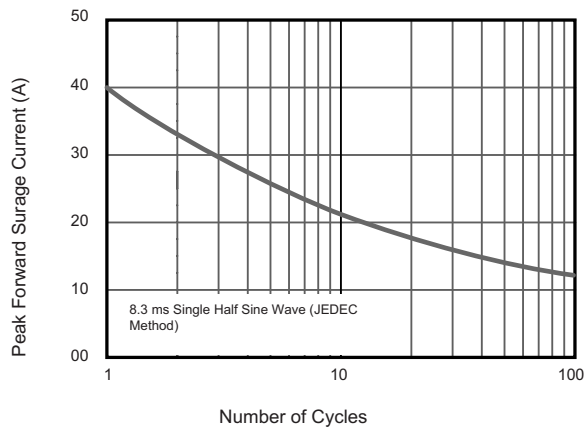
**Fig.3 Typical Instantaneous Forward Characteristics T<sub>J</sub>=25°C**



**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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