ABF2 THRU ABF10

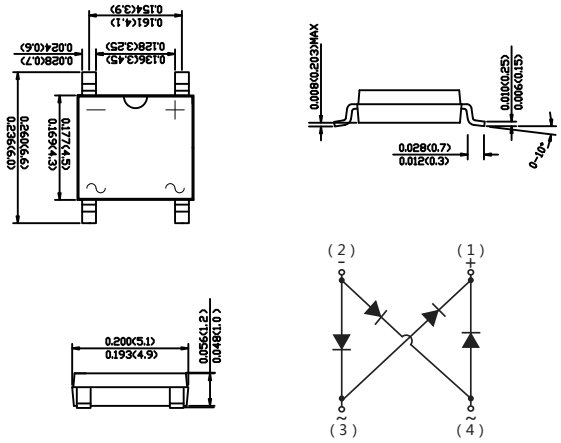
Voltage Range - 200 to 1000 V olts Current - 1.2Ampere

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Features

ABF

- 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 unlss otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter Marking Code	SYMBOLS	MDD ABF2	MDD ABF4	MDD ABF6	MDD ABF8	MDD ABF10	UNITS
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 T_A=25°C at rated DC blocking voltage T_A=125°C	I_R	5 100					uA
Typical thermal resistance	$R\theta_{JA}$ $R\theta_{JC}$	70 18					°C/W
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.

Ratings And Characteristic Curves

Fig.1 Average Rectified Output Current Derating Curve

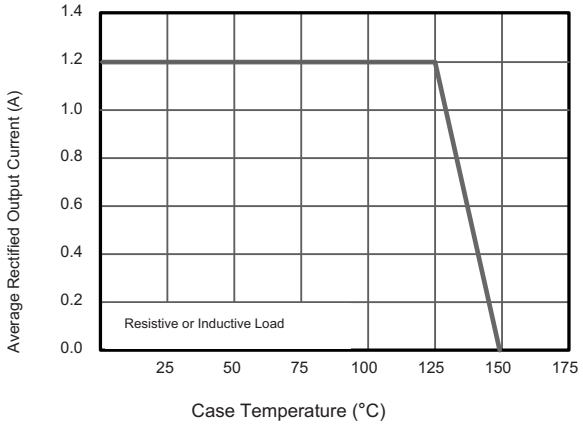


Fig.2 Typical Reverse Characteristics

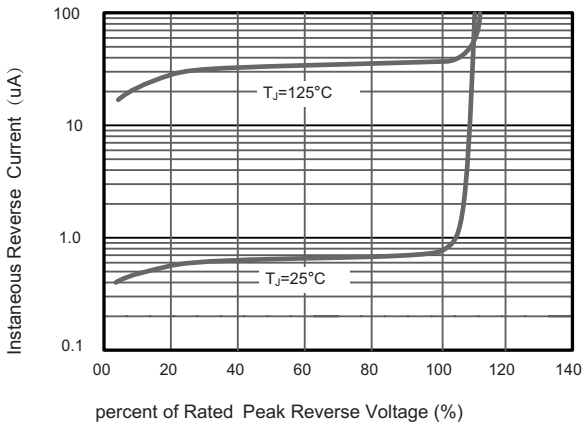


Fig.3 Typical Instaneous Forward Characteristics T_J=25°C

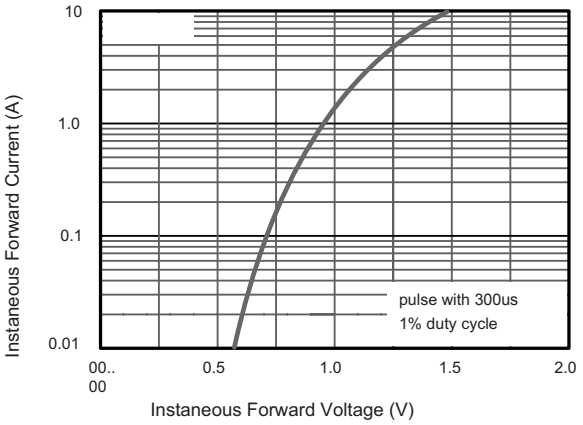


Fig.4 Typical Junction Capacitance

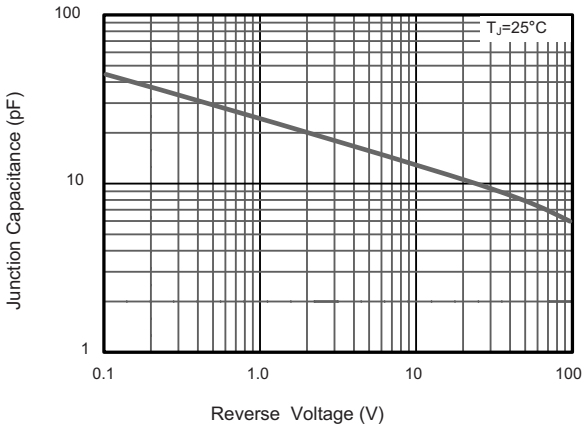
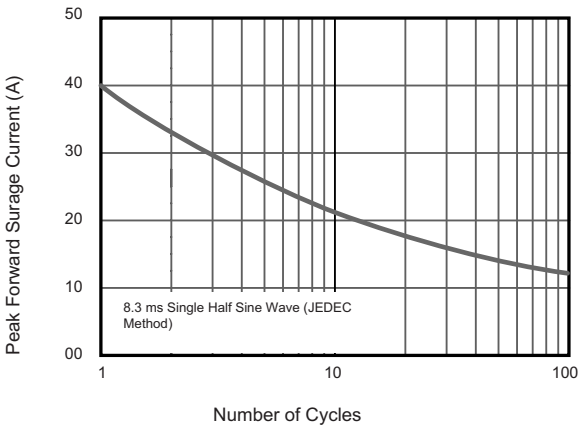
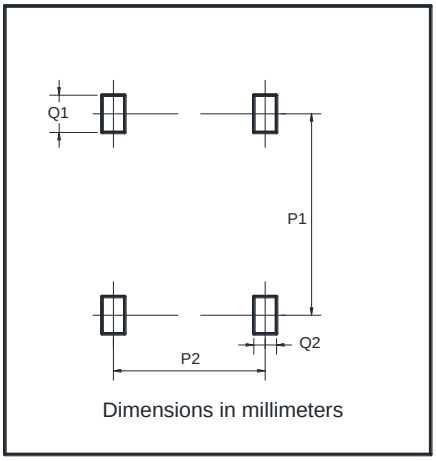


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.

Suggested Pad Layout



Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90