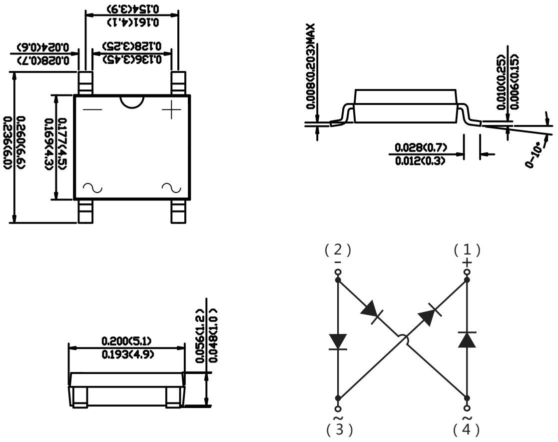
SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS AB2F THRU AB10F

Features

1. Ideal for printed circuit board
2. Reliable low cost construction utilizing molded plastic
3. technique High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension
4. Small size, simple installation
5. High surge current capability
6. Glass passivated chip junction

ABF



Dimensions in inches and (millimeters)

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

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	SYMBOLS	AB2F	AB4F	AB6F	AB8F	AB10F	UNITS
Marking Code		AB2F	AB4F	AB6F	AB8F	AB10F	
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	$I_{F(AV)}$	1.0					A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30					A
Maximum instantaneous forward voltage drop per leg at 1A	V_F	1.1					V
Maximum DC reverse current T_A=25°C at rated DC blocking voltage T_A=100°C	I_R	5 50					uA
Typical thermal resistance	$R\theta_{JA}$	75					°C/W
Typical junction capacitance	C_j	13					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 TYPICAL FORWARD CHARACTERISTICS

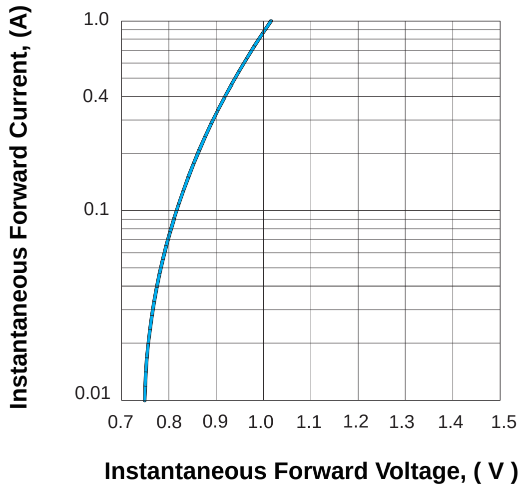


FIG.2 FORWARD DERATING CURVE

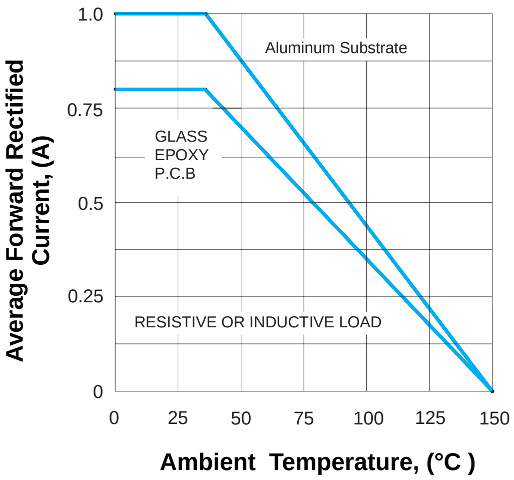


FIG.3 TYPICAL REVERSE CHARACTERISTICS

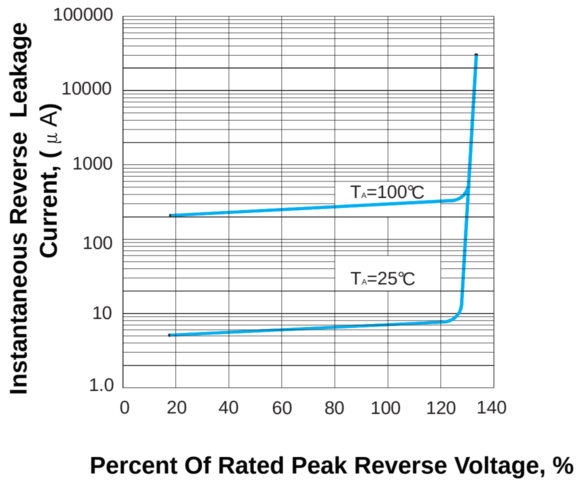
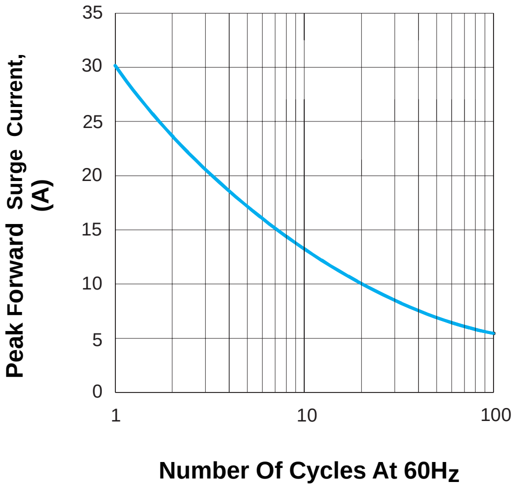
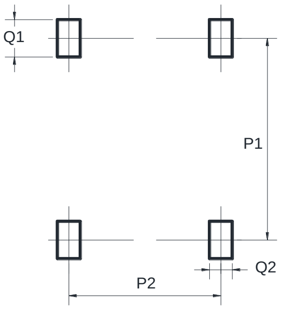


FIG.4 PEAK FORWARD SURGE CURRENT



Suggested Pad Layout



Dimensions in millimeters

Dim	Min
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90