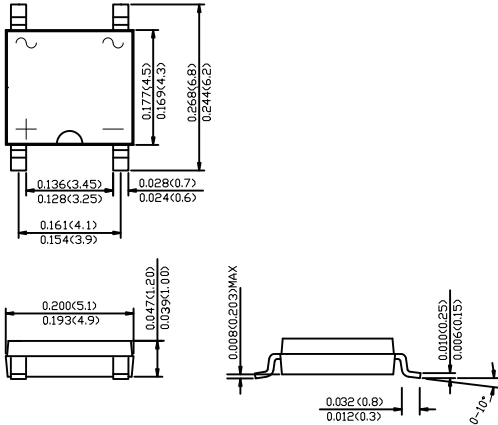


UABF2 THRU UABF10

GLASS PASSIVATED ULTRA FAST RECOVERY BRIDGE RECTIFIERS

Voltage Range - 200 to 1000 Volts Current - 0.8/1.0 Ampere

ABF



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
- ◆ Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability
- ◆ Glass passivated chip junction
- ◆ Green compound(halogen&Sb₂O₃ free)

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%.

	SYMBOLS	UABF2	UABF4	UABF6	UABF8	UABF10	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 On glass-epoxy P.C.B.(Note1) On aluminum substrate(Note2)	I _{F(AV)}	0.8			1.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30					A
Maximum instantaneous forward voltage drop per leg at 0.4A	V _F	1.0	1.4	1.7			V
Maximum DC reverse current at rated DC blocking voltage	I _R	5.0			500		uA uA
Typical thermal resistance(NOTE 3)	R _{θJL}	28					°C/W
	R _{θJA}	80					
Maximum reverse recovery time (NOTE 4)	t _{rr}	50		75			ns
Operating temperature range	T _J	-55 to +150					°C
storage temperature range	T _{STG}	-55 to +150					°C

NOTES:1.On glass epoxy P.C.B. mounted on 0.05x0.05"(1.3x1.3mm) pads.

2.On aluminum substrate P.C.B. with an area of 0.8"x0.8"(20x20mm) mounted on 0.05X0.05"(1.3X1.3mm) solder pad.

3.Thermal resistance form junction to ambient and junction to lead mounted on P.C.B. with 0.2X0.2"(5X5mm) copper pads.

4.Reverse recovery condition I_F=0.5A,I_R=1.0A,I_{rr}=0.25A.

RATINGS AND CHARACTERISTIC CURVES UABF2 THRU UABF10

FIG.1 FORWARD DERATING CURVE

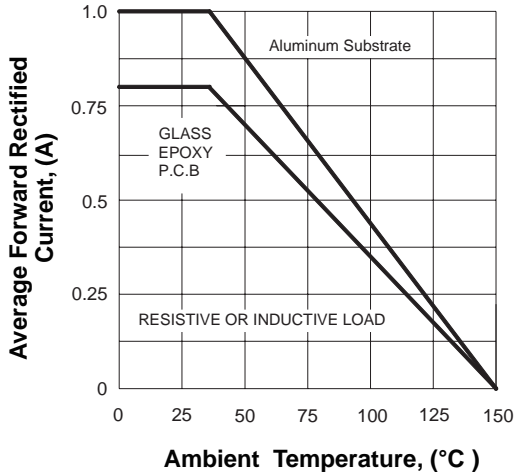


FIG.2 PEAK FORWARD SURGE CURRENT

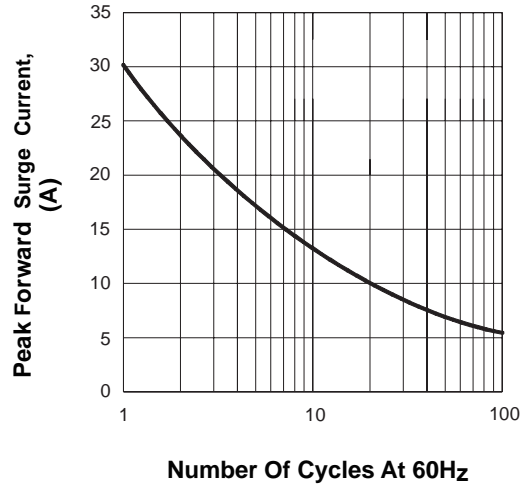


FIG.3 TYPICAL FORWARD CHARACTERISTICS

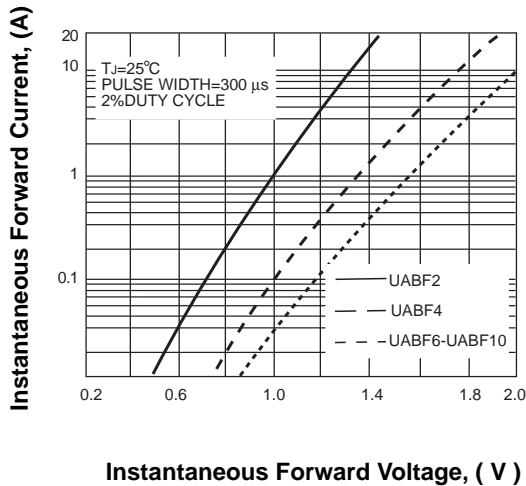


FIG.4 TYPICAL REVERSE CHARACTERISTICS

