



UABS2 THRU UABS10

GLASS PASSIVATED ULTRA FAST RECOVERY BRIDGE RECTIFIERS

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

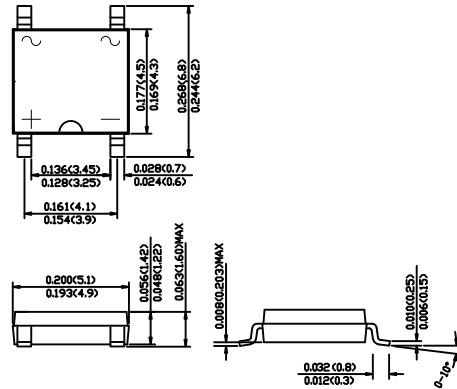
FEATURES

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

ABS



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 derate current by 20%.

	SYMBOLS	UABS2	UABS4	UABS6	UABS8	UABS10	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)	$R_{\theta JL}$	25					°C/W
	$R_{\theta JA}$	75					
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 UABS2 THRU UABS10

FIG.1 FORWARD DERATING CURVE

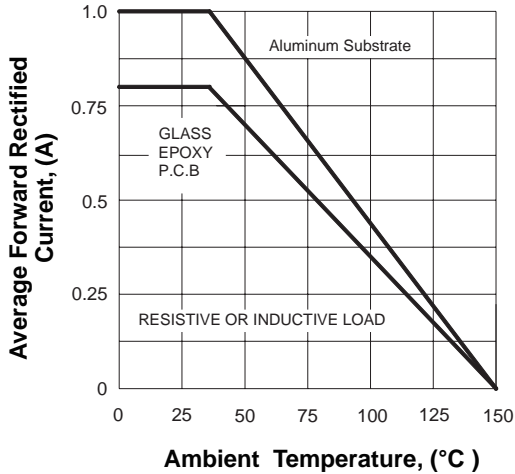


FIG.2 PEAK FORWARD SURGE CURRENT

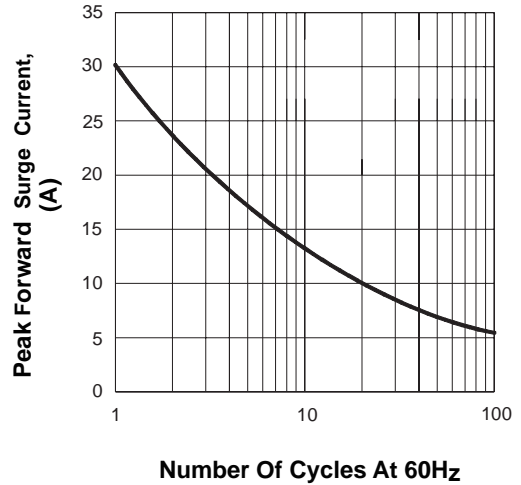


FIG.3 TYPICAL FORWARD CHARACTERISTICS

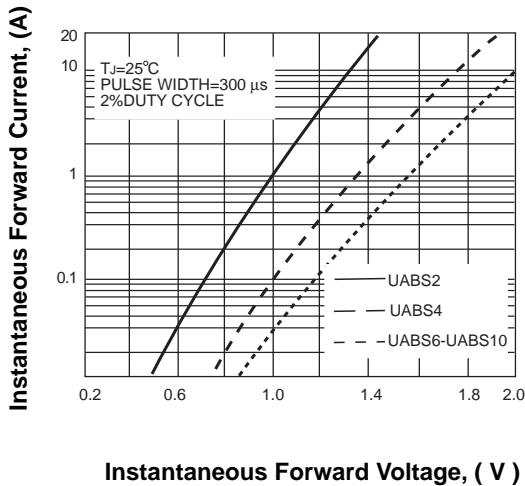


FIG.4 TYPICAL REVERSE CHARACTERISTICS

