

UABS2 THRU UABS10

1.0A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers-200-1000V

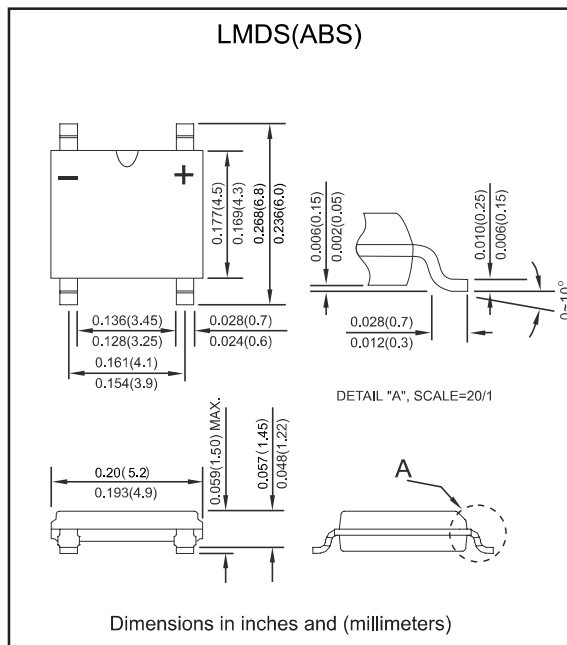
Features

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3 kg) tension
- High surge current capability
- Suffix "-H" indicates Halogen-free part, ex.UABS2-H.

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, LMDS(ABS)
- Terminals : Solder plated, solderable per MIL-STD-202, Method 208
- Polarity : marked on body
- Mounting Position : Any
- Weight : Approximated 0.099 gram

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	On glass-epoxy P.C.B. On aluminum substrate	I _O			0.8 1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC methode)	I _{FSM}			30	A
Reverse current	V _R = V _{RRM} T _J = 25°C V _R = V _{RRM} T _J = 125°C	I _R			5.0 200	μA
Typical Thermal resistance	Junction to lead On aluminum substrate On Glass-Epoxy substrate	R _{θJL} R _{θJA}		25 62.5 80		°C/W
Rating for fusing (t < 8.3 ms)		I ² t			3.7	A ² s
Storage temperature		T _{STG}	-55		+150	°C

SYMBOLS	V _{RRM} *1 (V)	V _{RMS} *2 (V)	V _R *3 (V)	V _F *4 (V)	t _{tr} *5 (ns)	Operating temperature T _J , (°C)
UABS2	200	140	200	1.00	50	-55 to +150
UABS4	400	280	400	1.30		
UABS6	600	420	600	1.70	75	
UABS8	800	560	800			
UABS10	1000	700	1000			

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage@I_F=1.0A

Rating and characteristic curves (UABS2 THRU UABS10)

FIG.1 FORWARD CURRENT DERATING CURVE

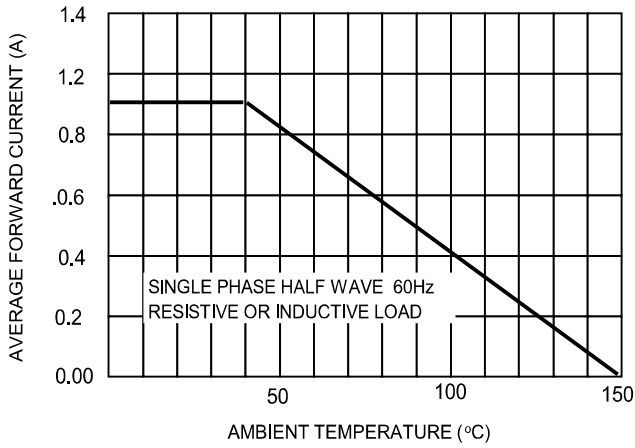


FIG.2 TYPICAL FORWARD CHARACTERISTICS

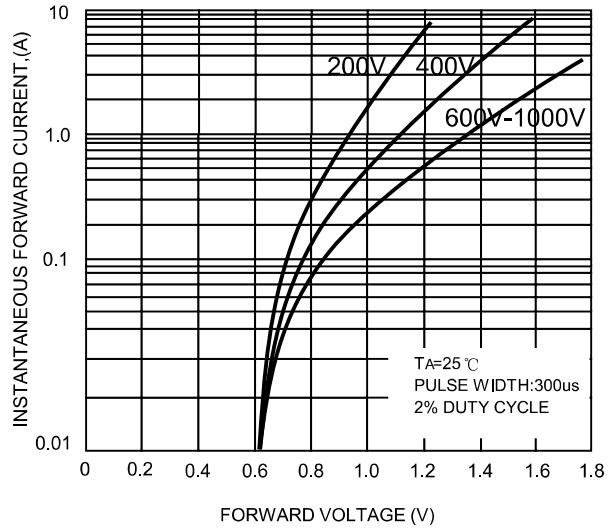


FIG.3 MAXIMUM NON-REPETITIVE

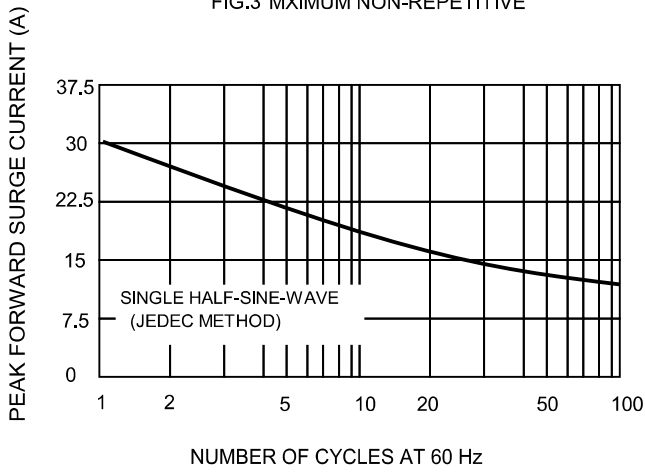
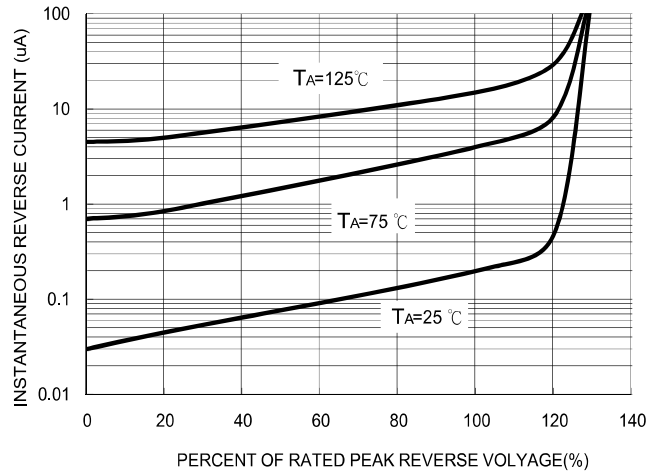
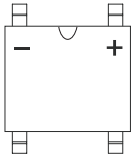
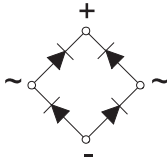


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

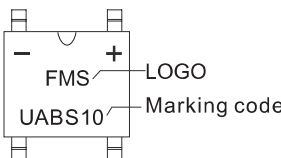
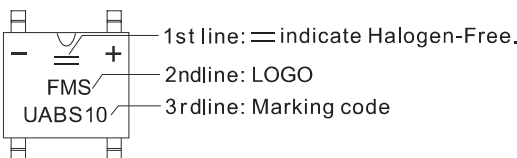


UABS2 THRU UABS10

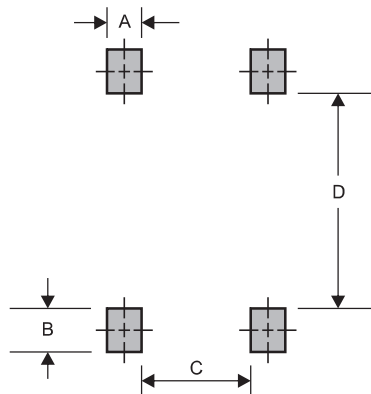
Pinning information

Simplified outline	Symbol
	

Marking

Type number	Marking code	Example	
UABS2 UABS4 UABS6 UABS8 UABS10	UABS2 UABS4 UABS6 UABS8 UABS10	1. For Halogen Device 	2. For Halogen-free Device 

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C	D
LMDS/ABS	0.024 (0.60)	0.024 (0.60)	0.132 (3.35)	0.193 (4.90)