AB102S THRU AB110S

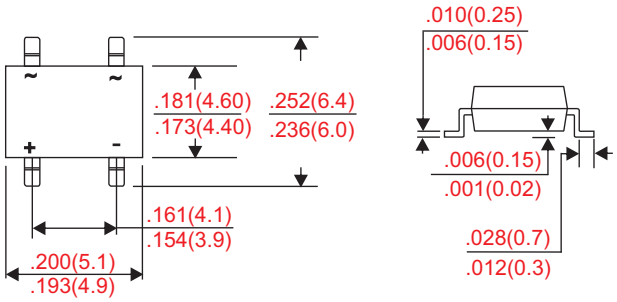
1A Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifiers

■ Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Ideal for automated replacement.
- Reliable low cost construction utilizing molded plastic technology results in inexpensive product.
- Glass passivated chip junctions.
- UL recognized file # E321971
- High temperature soldering guaranteed: 260°C /10 seconds
- Suffix "G" indicates Halogen-free part, ex.AB102SG.

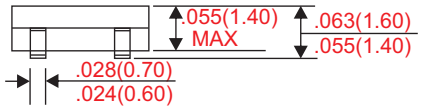
■ Outline

ABS



■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, ABS
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Symbol molded on body



Dimensions in inches and (millimeters)

■ Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	on glass-epoxy PCB at T_A = 25°C	I_O			0.8	A
	on aluminum substrate at T_A = 25°C				1.0	
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			30	A
Reverse current	V_R = V_{RRM} T_A = 25°C	I_R			5.0	uA
	V_R = V_{RRM} T_A = 125°C				500	
Storage temperature		T_{STG}	-55		+150	°C

Symbol	Marking code	Max. repetitive peak reverse voltage V_{RRM} (V)	Max. RMS voltage V_{RMS} (V)	Max. DC blocking voltage V_R (V)	Max. forward voltage @0.4A, T_A = 25°C V_F (V)	Max. forward voltage @0.5A, T_A = 25°C V_F (V)	Operating temperature T_J (°C)
ABS102S	ABS102S	200	140	200	0.95	1.0	-55 ~ +150
ABS104S	ABS104S	400	280	400			
ABS106S	ABS106S	600	420	600			
ABS108S	ABS108S	800	560	800			
ABS110S	ABS110S	1000	700	1000			

Document ID : DS-22B16
Issued Date : 2010/05/05
Revised Date : 2012/05/31
Revision : C

■ Rating and characteristic curves

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENTPER

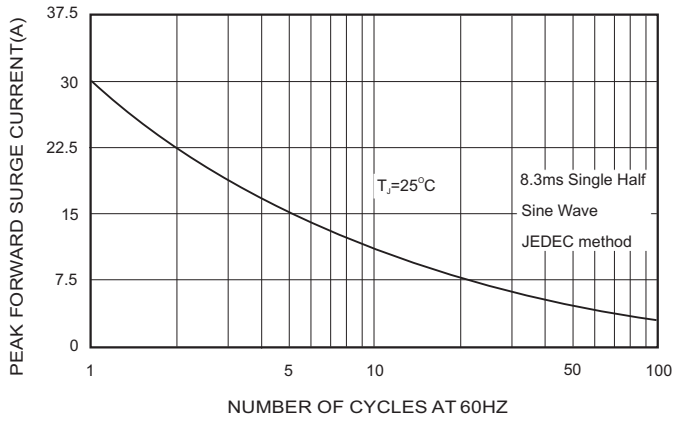


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

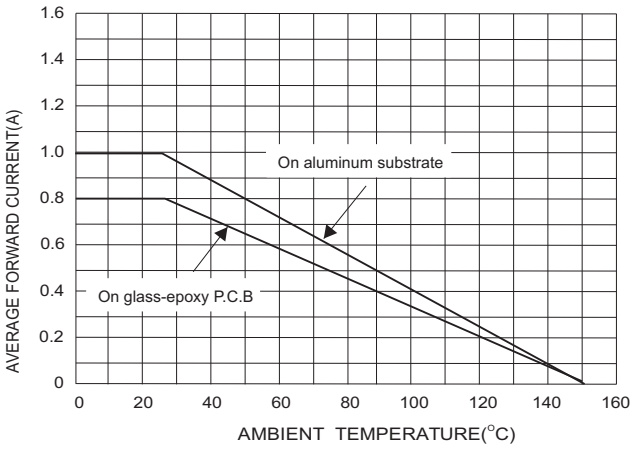


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

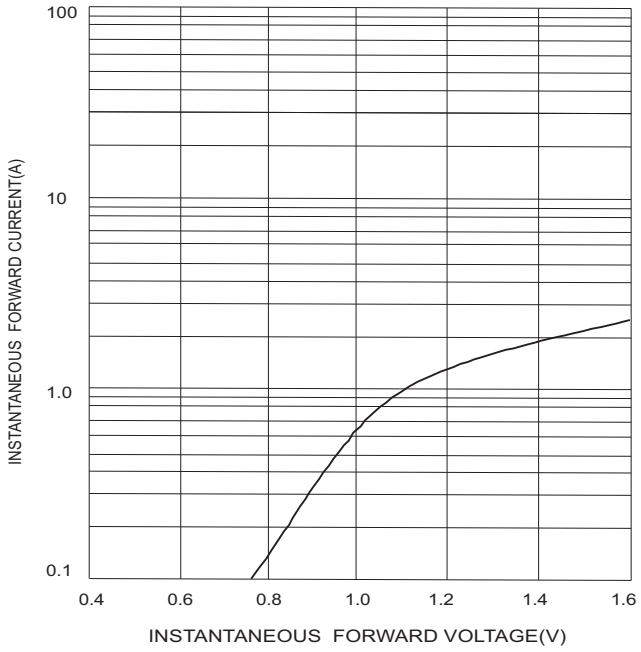
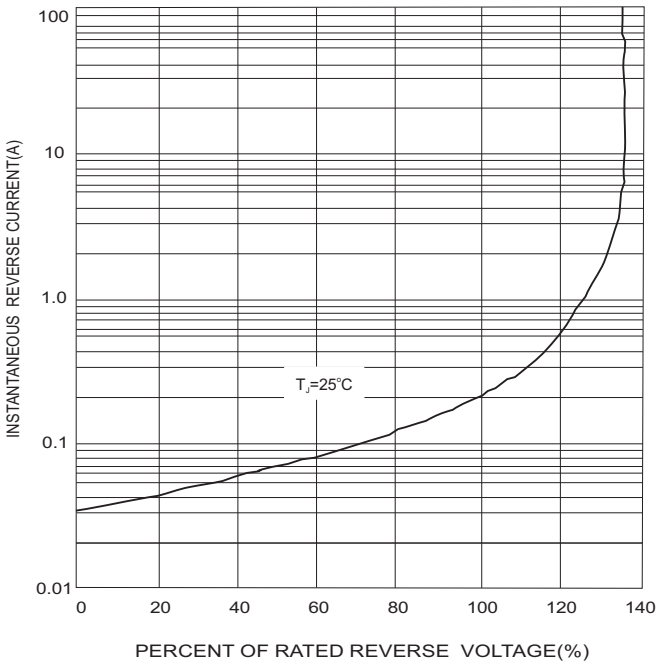
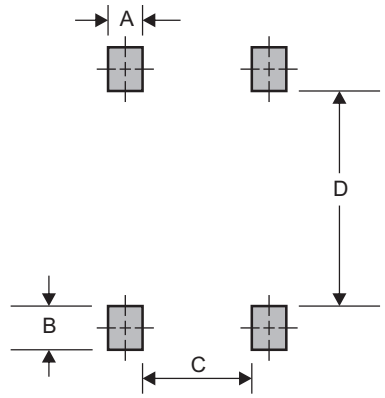


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Document ID : DS-22B16
Issued Date : 2010/05/05
Revised Date : 2012/05/31
Revision : C

■ MDS(TO-269AA) foot print



A	B	C	D
0.024 (0.60)	0.024 (0.60)	0.132 (3.35)	0.193 (4.90)

Dimensions in inches and (millimeters)

http://www.citcorp.com.tw/ Tel:886-3-5600628 Fax:886-3-5600636

Add:Rm. 3, 2F., No.32, Taiyuan St., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

Document ID : DS-22B16
Issued Date : 2010/05/05
Revised Date : 2012/05/31
Revision : C