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.

■ Mechanical data

• Epoxy:UL94-V0 rated flame retardant

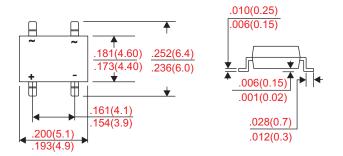
· Case: Molded plastic, ABS

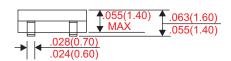
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

• Polarity : Symbol molded on body

Outline

ABS





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				0.8	•
	on aluminum substrate at T _A = 25°C	I _o			1.0	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			30	Α
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$	_			5.0	uA
	$V_R = V_{RRM} T_A = 125^{\circ}C$	I _R			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 $@0.4A, T_A = 25^{\circ}C$ $V_F(V)$	Max. forward voltage @0.5A, $T_A = 25^{\circ}C$ $V_F(V)$	Operating temperature T _J (°C)
ABS102S	ABS102S	200	140	200			
ABS104S	ABS104S	400	280	400			
ABS106S	ABS106S	600	420	600	0.95	1.0	-55 ~ +150
ABS108S	ABS108S	800	560	800			
ABS110S	ABS110S	1000	700	1000			

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■ Rating and characteristic curves

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENTPER

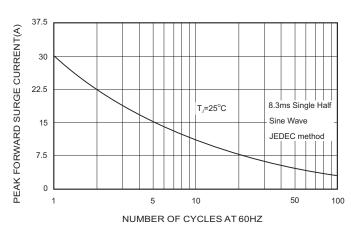


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

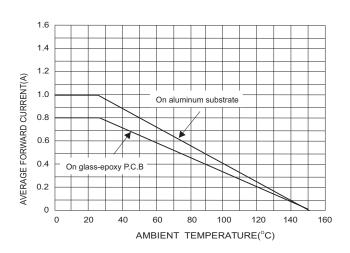


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

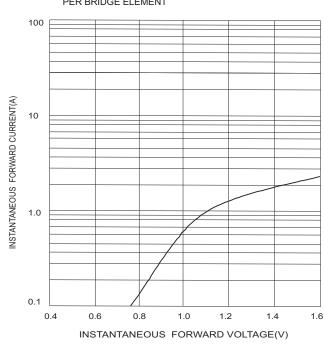
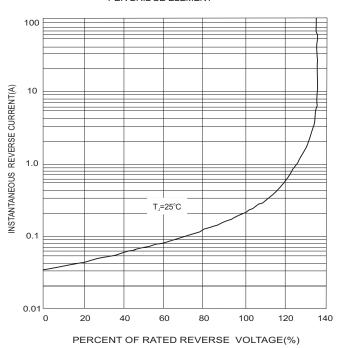


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

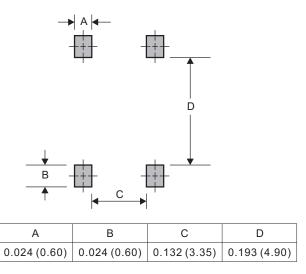


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■ MDS(TO-269AA) foot print



Dimensions in inches and (millimeters)

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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.)

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