

AB102S-A THRU AB110S-A

Single Phase 0.8AMP Surface Mount Glass Passivated Bridge Rectifiers

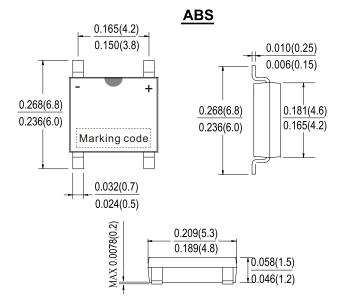
■ Features

- Glass passivated die construction.
- · Low forward voltage drop.
- · High current capability.
- · High surge current capability.
- Design for surface mount application.
- Plastic material-UL flammability 94V-0.
- Suffix "G" indicates Halogen free parts, ex AB102SG-A

■ Mechanical data

- · Case: SOPA-4, Molded plastic, ABS
- Terminals :plated leads solderable per MIL-STD-202, Method 208
- · Polarity: as marked on case
- · Mounting position: Any
- · Marking: type number

Outline



Dimensionsininchesand(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
A	$T_A = 30^{\circ}C \text{ (Note:1)}$				0.5	Α
Average rectified output current	$T_A = 30^{\circ}C \text{ (Note:2)}$	I _{FSM}			0.8	
Non-Repetitive Peak Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I _{FSM}			30	А
Peak Reverse current	$T_A = 25^{\circ}C$	I _{FSM}		5		
at rated DC blocking voltage	T _A = 125°C	I _R			500	uA
Typical Thermal resistance	pical Thermal resistance	R _{eJA}			62.5	°C/W
per leg (Note:3)		R _{eJL}			25	
Storage temperature		T _{stg}	-55 to +150		°C	
Operating Junction temperature		T,	-55 to +150		°C	

Symbol	Marking code	Max. repetitive peak reverse voltage V _{RRM} (V)	Max. Working peak reverse voltage V _{RWM} (V)	Max. DC blocking voltage V _{DC} (V)	Max. RMS voltage V _{RMS} (V)	forward voltage per element @IF=0.5A V _{FM} (V)
AB102S-A	ABS2	200	200	200	140	
AB104S-A	ABS4	400	400	400	280	
AB106S-A	ABS6	600	600	600	420	0.95
AB108S-A	ABS8	800	800	800	560	
AB110S-A	ABS10	1000	1000	1000	700	

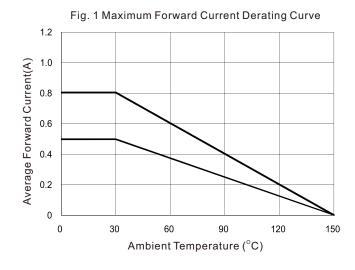
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Note: 1.Mounted on glass epoxy PC board with 1.3mm² solder pad. 2.Mountaed on aluminum substrate PC board with 1.3mm² solder pad. 3.Measured at 1.0MHz and applied reverse voltage of 4.0V D.C.

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■ Rating and characteristic curves



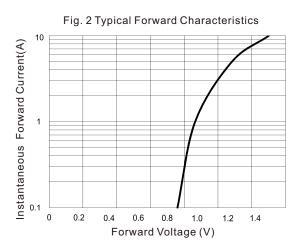


Fig. 3 Maximum Non-Repetitive Forward Surge Current

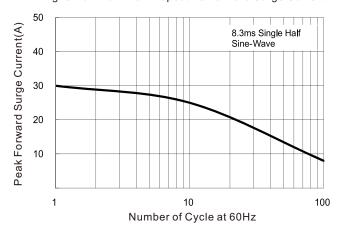
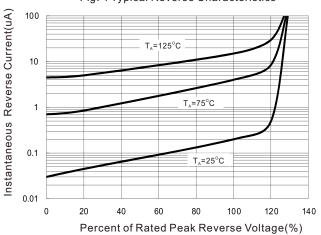


Fig. 4 Typical Reverse Characteristics



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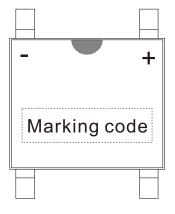
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■ Marking Information



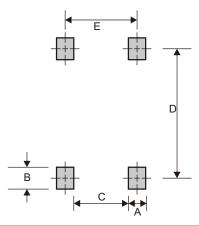
	Part number Marking Co		
Halogen	AB102S-A	ABS2	
	AB104S-A	ABS4	
	AB106S-A	ABS6	
	AB108S-A	ABS8	
	AB110S-A	ABS10	
	AB102SG-A	ABS2H	
	AB104SG-A	ABS4H	
Halogen free	AB106SG-A	ABS6H	
	AB108SG-A	ABS8H	
	AB110SG-A	ABS10H	

■ Ordering/Packing information

Part number		Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen	AB102S-A	ADC	4.000	9,000	40,000
Halogen free	AB102SG-A	ABS	4,000	8,000	40,000

 $\textbf{Notes}: \ \ \textbf{1. For packaging details please reference our website at $http://www.citcorp.com.tw/tchinese/products/index.php}$

■ ABS foot print



Α	В	С	D	E
0.035 (0.90)	0.059 (1.50)	0.125 (3.20)	0.225 (5.72)	0.161 (4.10)

Dimensions in inches and (millimeters)

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