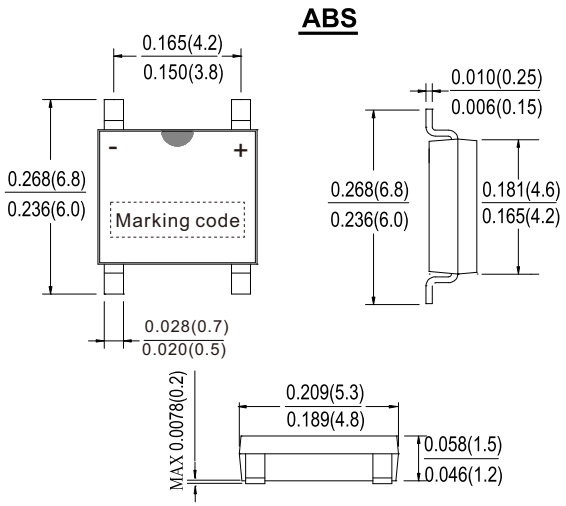
AB2S SERIES

Single Phase 0.5AMP Surface Mount Glass Passivated Bridge Rectifiers

Main Product Characteristics

$I_{F(AV)}$	0.5A
V_{RRM}	200~1000V
T_J	150°C
$V_{F(Typ)}$	1.0V

■ Outline



Dimensions in inches and (millimeters)

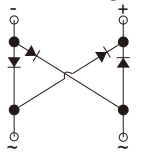
■ Features

- Glass passivated die construction.
- Low forward voltage drop.
- High current capability.
- High surge current capability.
- Design for surface mount application.
- Suffix "G" indicates Halogen free parts, ex AB2SG
- Lead free in compliance with EU RoHS.

■ 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

■ Circuit Diagram



■ 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	Value	UNIT
Average rectified output current	T_C = 100°C (Note:1)	IF(AV)	0.5	A
Rating for fusing (t<8.3ms)		I^2t	2.59	A^2s
Non-Repetitive Peak Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	25	A
Peak Reverse current at rated DC blocking voltage	T_A = 25°C	I_R	5	uA
	T_A = 125°C		200	
Typical Thermal resistance per leg		$R_{\theta JA}$	62.5	°C/W
		$R_{\theta JL}$	25	
Operating and Storage temperature Range		T_J, T_{STG}	-55 to +150	°C

Symbol	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)
AB2S	200	200	200	140	1.0
AB4S	400	400	400	280	
AB6S	600	600	600	420	
AB8S	800	800	800	560	
AB10S	1000	1000	1000	700	

Note: 1.Mounted on glass epoxy PC board with 1.3mm² solder pad.

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■ Rating and characteristic curves

Fig. 1 Maximum Forward Current Derating Curve

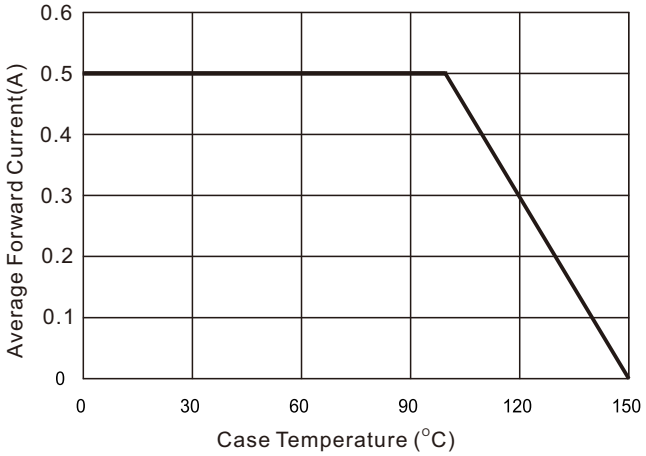


Fig. 2 Typical Forward Characteristics

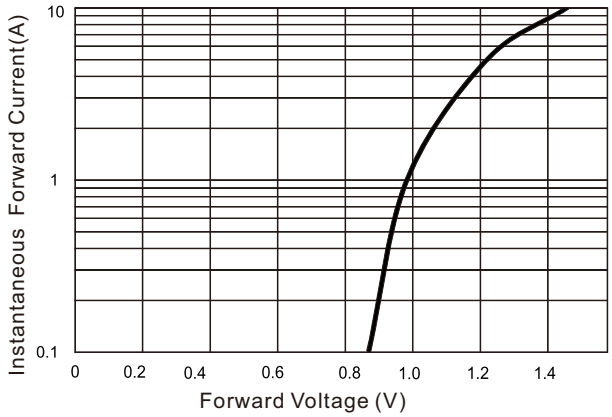


Fig. 3 Maximum Non-Repetitive Forward Surge Current

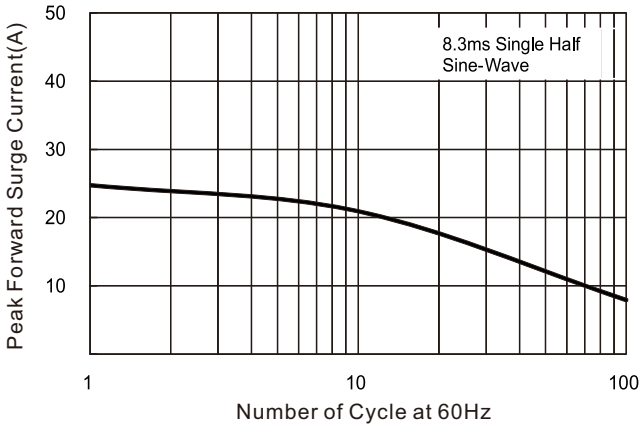
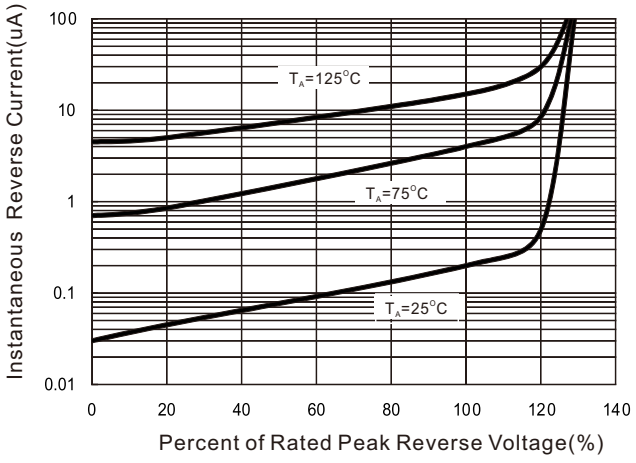


Fig. 4 Typical Reverse Characteristics



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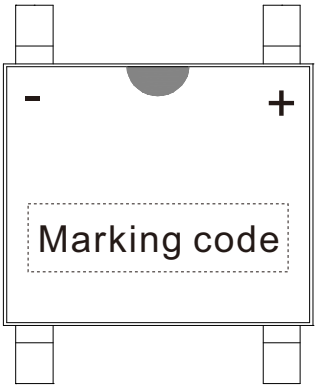
■ Marking Information



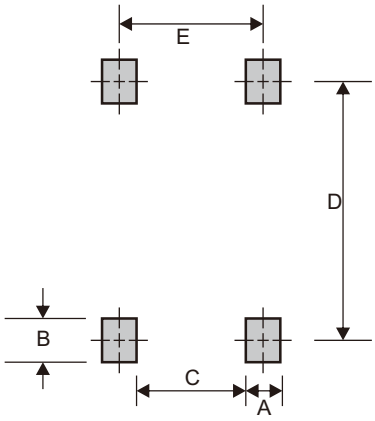
	Part number	Marking Code
Halogen	AB2S	ABS2N
	AB4S	ABS4N
	AB6S	ABS6N
	AB8S	ABS8N
	AB10S	ABS10N
Halogen free	AB2SG	ABS2NH
	AB4SG	ABS4NH
	AB6SG	ABS6NH
	AB8SG	ABS8NH
	AB10SG	ABS10NH

■ Ordering/Packing information

Part number		Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen	AB2S	ABS	4,000	8,000	40,000
Halogėn free	AB2SG				

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

■ ABS foot print



A	B	C	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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