

Single Phase 0.5AMP Surface Mount Glass Passivated Bridge Rectifiers

Main Product Characteristics

I _{F(AV)}	0.5A		
V _{RRM}	200~1000V		
TJ	150°C		
V _{F(Typ)}	1.0V		

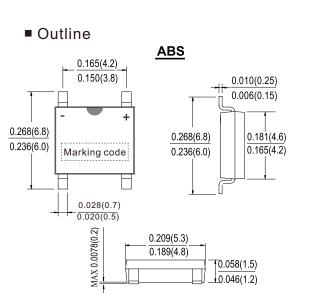
Features

- 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.

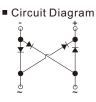
Mechanical data

- 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

Maximum ratings and electrical characteristics



Dimensions in inches and (millimeters)



280

420

560

700

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	А	
Rating for fusing (t<8.3ms)				l ² t		2.59	A ² s	
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	$T_{A} = 25^{\circ}C$			1		5		
at rated DC blocking voltage	$T_{A} = 125^{\circ}C$			I _R	2	200	uA	
Typical Thermal resistance				R _{eja}	6	62.5	°C/W	
perleg				R _{ejl}		25 °C/		
Operating and Storage temperature Range				$T_{J,} T_{stg}$	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)	$\begin{array}{c} \text{Max. DC} \\ \text{blocking voltage} \\ V_{\text{DC}} \left(V \right) \end{array}$	Max. RMS voltage V _{RMS} (V)		forward voltage per element @IF=0.5A V _{FM} (V)		
AB2S	200	200	200	140				

400

600

800

1000

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

400

600

800

1000

AB4S

AB6S

AB8S

AB10S

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1.0

400

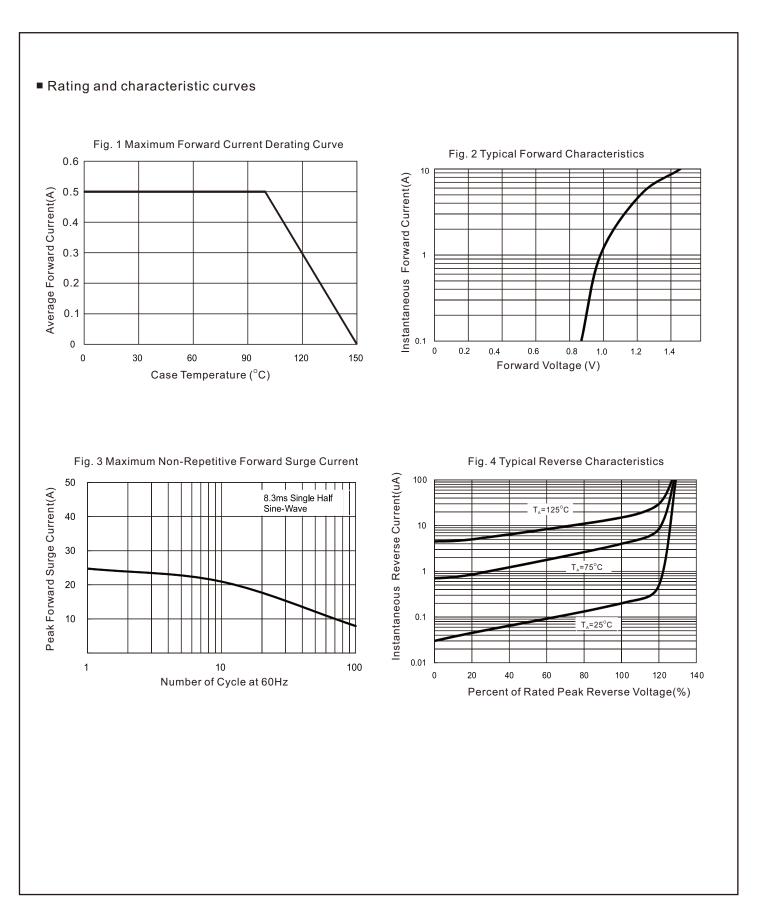
600

800

1000



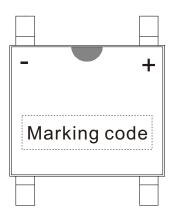
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Marking Information



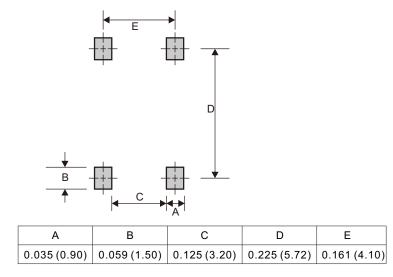
	Part number	Marking Code		
Halogen	AB2S	ABS2N		
	AB4S	ABS4N		
	AB6S	ABS6N		
	AB8S	ABS8N		
	AB10S	ABS10N		
Halogen free	AB2SG	ABS2NH		
	AB4SG	ABS4NH		
	AB6SG	ABS6NH		
	AB8SG	ABS8NH		
	AB10SG	ABS10NH		

Ordering/Packing information

Part number		Case	Q'TY/Reel (PCS)	Q'TY/Box (PCS)	Q'TY/Carton (PCS)
Halogen	AB2S	ABS	4.000	0.000	40,000
Halogen free	AB2SG		4,000	8,000	

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

ABS foot print



Dimensions in inches and (millimeters)



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