0.046(1.2)



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		

■ 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

Outline **ABS** 0.165(4.2) 0.150(3.8) 0.010(0.25) 0.006(0.15) 0.268(6.8) 0.181(4.6) 0.268(6.8) 0.236(6.0) 0.165(4.2) 0.236(6.0) Marking code 0.028(0.7) 0.020(0.5) MAX 0.0078(0.2) 0.209(5.3) 0.189(4.8) 0.058(1.5)

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	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	А
Peak Reverse current at rated DC blocking voltage	$T_A = 25^{\circ}C$		5	
	T _A = 125°C	I _R	200	uA
Typical Thermal resistance		R _{eJA}	62.5	90,000
perleg		R _{eJL}	25	°C/W
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	
AB4S	400	400	400	280	
AB6S	600	600	600	420	1.0
AB8S	800	800	800	560	
AB10S	1000	1000	1000	700	

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

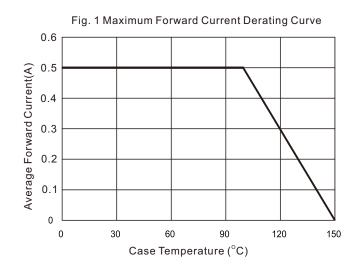
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■ Rating and characteristic curves



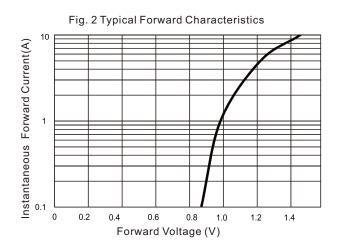


Fig. 3 Maximum Non-Repetitive Forward Surge Current

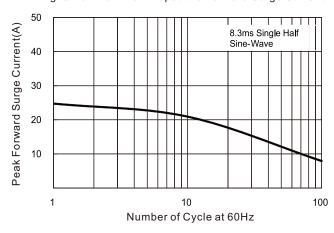
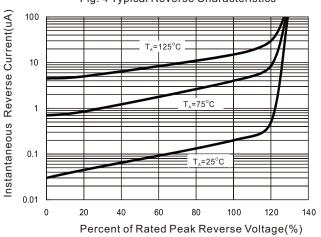


Fig. 4 Typical Reverse Characteristics



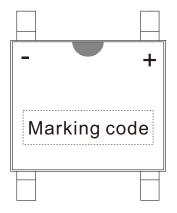
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■ Marking Information



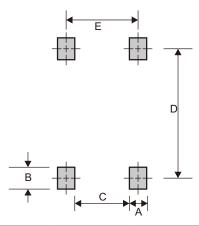
	Part number	Marking Code
	AB2S	ABS2N
	AB4S	ABS4N
Halogen	AB6S	ABS6N
	AB8S	ABS8N
	AB10S	ABS10N
	AB2SG	ABS2NH
	AB4SG	ABS4NH
Halogen free	AB6SG	ABS6NH
	AB8SG	ABS8NH
	AB10SG	ABS10NH

■ Ordering/Packing information

Part number		Case	Q'TY/Reel (PCS)	Q'TY/Reel (PCS) Q'TY/Box (PCS)	
Halogen	AB2S	4000		9 000	40.000
Halogen free	AB2SG	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	ВС		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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