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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# **SMD Glass Passivated Bridge Rectifiers**



# B05S-G Thru. B10S-G

Reverse Voltage: 50 to 1000 Volts

Forward Current: 0.8 A

**RoHS Device** 



#### **Features**

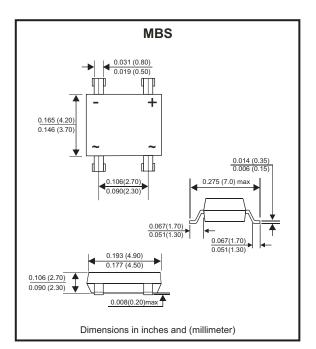
- -Rating to 1000V PRV.
- -Ideal for printed circuit board.
- -Reliable low cost construction utilizing molded plastic technique results in inexpensive product.
- -Pb free product.
- -UL recognized file # E349301 T1



### Mechanical data

-Polarity: Symbol molded on body.

-Weight: 0.125 grams. -Mounting position: Any.



## **Maximum Rating And Electrical Characteristics**

Rating at TA=25°C, unless otherwise noted. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter		Symbol	B05S-G	B1S-G	B2S-G	B4S-G	B6S-G	B8S-G	B10S-G	Unit
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	ge	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @Ta=40°C		I(AV)	0.8						А	
Peak Forward Surge Current, 8.3mS single half sine-wave, superimposed on rated load (JEDEC Method)		Ігѕм	30					А		
Peak Forward Voltage at 0.8A DC		VF	1.1					V		
Maximum DC Reverse Current @TJ=25°C at Rated DC Blocking Voltage @TJ=125°C		lr	5.0 500					μΑ		
Typical Junction Capacitance per element (Note 2)		Сı	15						pF	
Typical Thermal Resistance Junction to ambient		Reja	125						°C/W	
Typical Memial Nesistance	Junction to case	Rejc	75						C/VV	
Operating Temperature Range		TJ	-55 to +150						°C	
Storage Temperature Range		Тѕтс	-55 to +150					°C		

Notes: 1. Mounted on P.C. Board.

2. Measured at 1.0MHz and applied reverse voltage of 4V DC.

Company reserves the right to improve product design, functions and reliability without notice.

## **SMD Glass Passivated Bridge Rectifiers**



### RATING AND CHARACTERISTIC CURVES (B05S-G thru. B10S-G)

Fig.1 - Forward Current Derating Curve

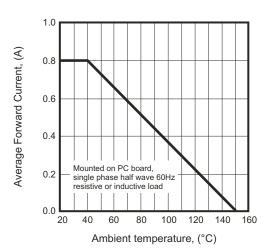


Fig.2 - Maximum Non-Repetitive Surge Current

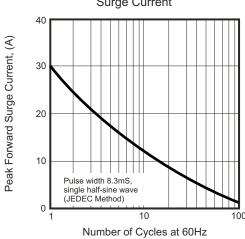


Fig.3 - Typical Reverse Characteristics

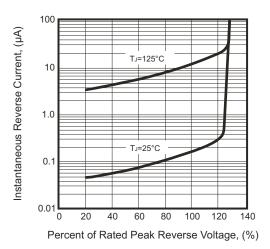


Fig.4 - Typical Forward Characteristics

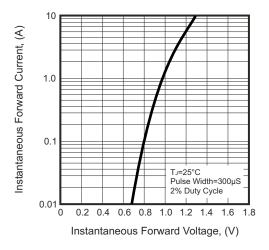
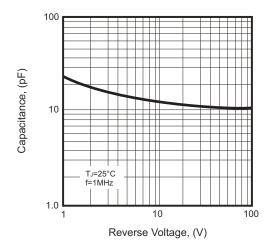


Fig.5 - Typical Junction Capacitance

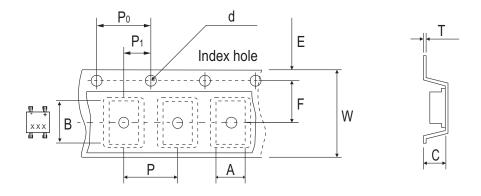


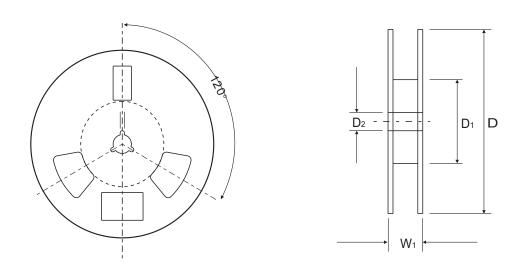
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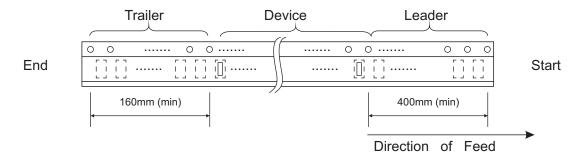
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### **Reel Taping Specification**







	SYMBOL	Α	В	С	d	D	D1	D2
MBS	(mm)	4.90 ± 0.10	7.24 ± 0.10	3.33 ± 0.10	1.55 ± 0.05	330	50.0 MIN.	13.00 ± 0.20
	(inch)	0.193 ± 0.004	0.285 ± 0.004	0.131 ± 0.004	0.061 ± 0.002	13	1.969 MIN.	0.512 ± 0.008

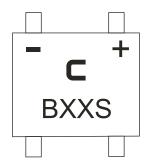
	SYMBOL	E	F	Р	P0	P1	T	W	<b>W</b> 1
MBS	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.30	12.00 ± 0.30	12.00~14.40
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.012	0.472 ± 0.012	0.472~0.657

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## **Marking Code**

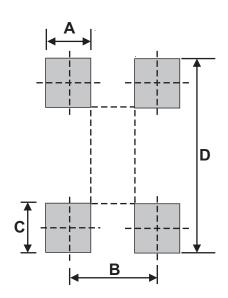
Part Number	Marking code
B05S-G	B05S
B1S-G	B1S
B2S-G	B2S
B4S-G	B4S
B6S-G	B6S
B8S-G	B8S
B10S-G	B10S



X/XX = Product type marking code

### **Suggested PAD Layout**

SIZE	MBS			
OIZL	(mm)	(inch)		
Α	0.82MIN	0.032MIN		
В	2.55REF	0.100REF		
С	0.92MIN	0.036MIN		
D	7.00MAX	0.276MAX		



## **Standard Packaging**

	REEL PACK				
Case Type	REEL (pcs)	Reel Size (inch)			
MBS	3,000	13			