SMD Glass Passivated Bridge Rectifiers



B05S-HF Thru. B10S-HF

Reverse Voltage: 50 to 1000 Volts Forward Current: 0.8 A RoHS Device Halogen Free

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

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%.

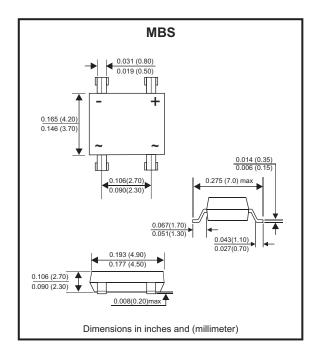
Parameter		Symbol	B05S-HF	B1S-HF	B2S-HF	B4S-HF	B6S-HF	B8S-HF	B10S-HF	Unit
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current (Note 1) @Ta=40°C		l(AV)	0.8						А	
Peak Forward Surge Current, 8.3mS single half sine-wave, superimposed on rated load (JEDEC Method)		Ігѕм	30							A
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		IR	5.0 500						μΑ	
Typical Junction Capacitance per element (Note 2)		CJ	15						pF	
Junction to ambient		Reja	125						°C/W	
Typical memal Resistance	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.

Downloaded from Arrow.com.





RATING AND CHARACTERISTIC CURVES (B05S-HF thru. B10S-HF)

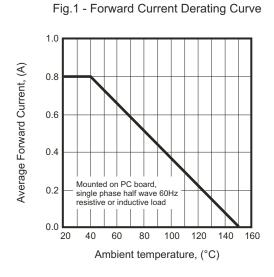
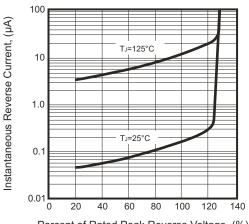
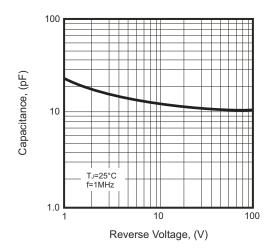


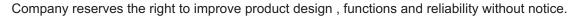
Fig.3 - Typical Reverse Characteristics



Percent of Rated Peak Reverse Voltage, (%)

Fig.5 - Typical Junction Capacitance





QW-JBR03

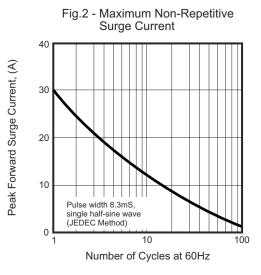
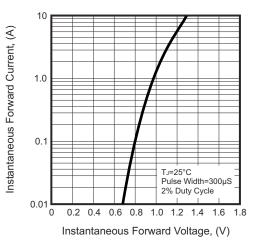
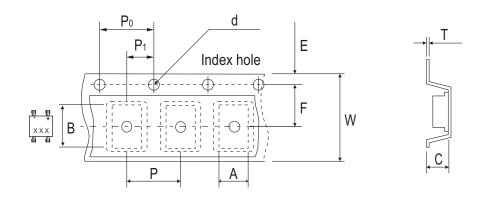


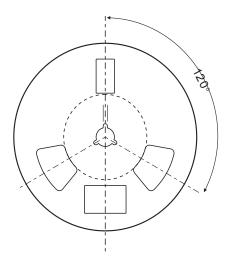
Fig.4 - Typical Forward Characteristics

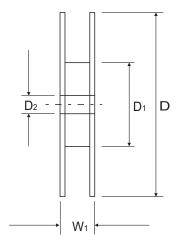


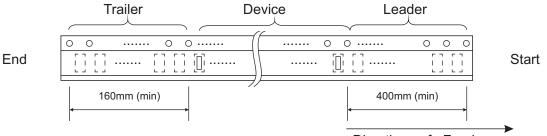


Reel Taping Specification









Direction of Feed

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

	SYMBOL	E	F	Р	P0	P1	Т	W	W 1
MBS	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	$\textbf{2.00} \pm \textbf{0.05}$	0.30	$\textbf{12.00} \pm \textbf{0.30}$	12.00~14.40
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	$\textbf{0.079} \pm \textbf{0.002}$	0.012	0.472 ± 0.012	0.472~0.657

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

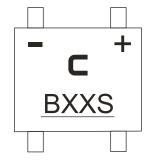
QW-JBR03

Comchip Technology CO., LTD.



Marking Code

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



X / XX = Product type marking code

Suggested PAD Layout

SIZE	MBS				
	(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			

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

QW-JBR03

