

DATA SHEET

B1S~B10S

MINI SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE - 100 to 1000 Volts CURRENT - 0.5 Amperes

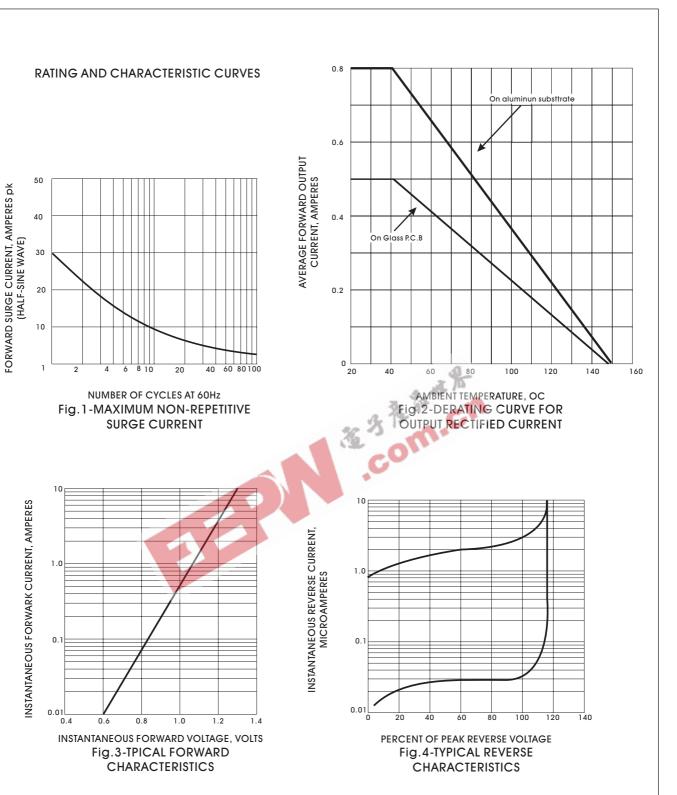
FEATURES				MDI		Unit: inch (n	nm)
Plastic material used carries Underwriters		_					
 Laboratory recognition 94V-O 				.275 (7) MAX		.106 (2.7)	
Low leakage				.165 (4.2)		.090 (2.3)	
 Surge overload rating 30 amperes peak 			.0310 (0.8) .0191 (0.5)	.150 (3.8)		.106 (2.7) .090 (2.3)	
Ideal for printed circuit board			.01			.090	
• Exceeds environmental standards of MIL-S-19500			1		.193 (4.9)		
MECHANICALDATA		_		2 +	<u> </u>	.051 (1.3)	
Case: Reliable low cost construction utilizing molded plastic technique nexpensive product	ue results in	_		-	.067 (1.7)	.035 (0.9)	
Terminals: Lead solderable per MIL-STD-202, Method 208.			.014 (0.35) .006 (0.15)		C .02(5)		
Polarity: Polarity symbols molded or marking on body.			1012	6 /m /			
Mounting Position: Any.			X #	008 (20)			
Weight: 0.008 ounce, 0.22 gram.		a0 3	12	.000 (.20)	.043 (1.1)		
		32 3 S	alle.		.027 (0.7)		
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MAXIMUM RATINGS AND ELECTRICAL CHARACTE	RISTICS						
Ratings at 25°C ambient temperature unless otherwise specified	d.						
Ratings at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20%		B2S	B4S	Bes	BSS	B10S	UNIT
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20%	B1S	B2S	B4S	B6S	B8S	B10S	-
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage	B1S 100	B2S 200	400	600	800	1000	UNIT
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20%	B1S						-
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage	B1S 100	200	400	600	800	1000	V
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1)	B1S 100 70	200 140	400 280	600 420	800 560	1000 700	V V V
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage	B1S 100 70	200 140	400 280	600 420 600	800 560	1000 700	V V
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1)	B1S 100 70	200 140	400 280 400	600 420 600 0.5	800 560	1000 700	V V V
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8	800 560	1000 700	V V V A A
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8 30.0	800 560	1000 700	V V V A A
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Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load I ² t Rating for fusing (t < 8.35 ms)	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8 30.0 5.0	800 560	1000 700	V V V A A A A ² t
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load I ² t Rating for fusing (t < 8.35 ms)	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8 30.0 5.0 1.00	800 560	1000 700	V V V A A A A ² t V W M/
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load I ² t Rating for fusing (t < 8.35 ms)	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8 30.0 5.0 1.00 5.0	800 560	1000 700	V V V A A A 2t V V pF
Single phase, half wave, 60Hz, Resistive or inductive load. For capacitive load, derate current by 20% Maximum Recurrent Peak Reverse Voltage Maximum RMS Bridge input Voltage Maximum DC Blocking Voltage Maximum Average Forward on glass-epoxy P.C.B (Note 1) Current T _A =30°C on aluminum substrate (Note 3) Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load I ² t Rating for fusing (t < 8.35 ms)	B1S 100 70	200 140	400 280 400	600 420 600 0.5 0.8 30.0 5.0 1.00 5.0 25.0	800 560	1000 700	V V V A A A

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.05 X 0.05"(13 x 13mm) copper pads.

3. On alum: substrate P.C.B with an rea of $0.8 \times 0.8 \times 0.25$ " ($20 \times 20 \times 6.4$ mm) mounte on 0.05×0.05 "(13×13 mm) solder pad.





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