

## DATA SHEET

## B1S~B10S

## MINI SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

## VOLTAGE - 100 to 1000 Volts CURRENT - 0.5 Amperes

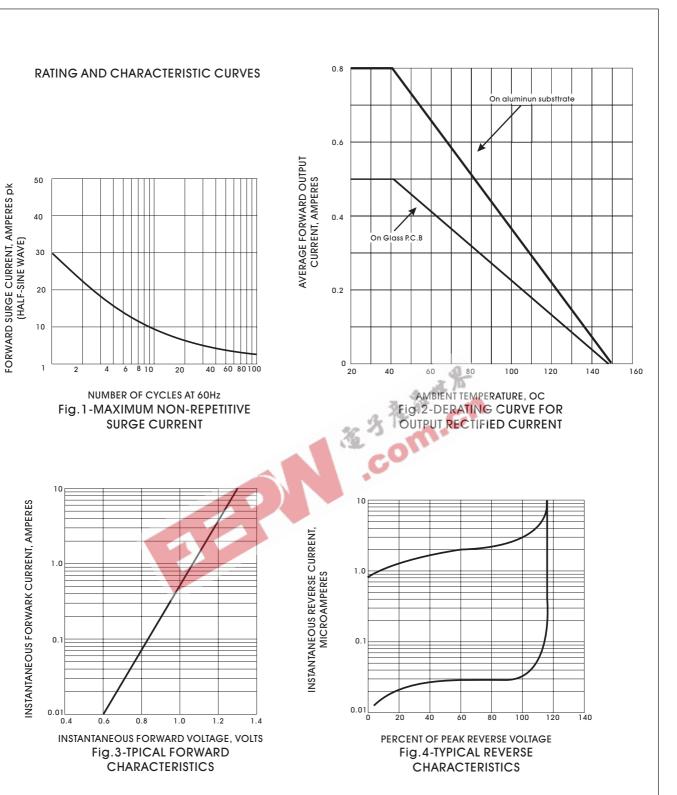
FEATURES				MDI		Unit: inch ( n	nm )
Plastic material used carries Underwriters		_					
<ul> <li>Laboratory recognition 94V-O</li> </ul>				.275 (7) MAX		.106 (2.7)	
Low leakage				.165 (4.2)		.090 (2.3)	
<ul> <li>Surge overload rating 30 amperes peak</li> </ul>			.0310 (0.8) .0191 (0.5)	.150 (3.8)		.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 ( <b>0.35</b> ) .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)		
		- 6					
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 <sub>A</sub> =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 <sub>A</sub> =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
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 <sub>A</sub> =30°C on aluminum substrate (Note 3)         Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load         I <sup>2</sup> 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 <sup>1</sup> 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 <sub>A</sub> =30°C on aluminum substrate (Note 3)         Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load         I <sup>2</sup> 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 <sup>2</sup> 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 <sub>A</sub> =30°C on aluminum substrate (Note 3)         Peak Forward Surge Current, 8.3ms singlehalf sine-wave         superimposed on rated load         I <sup>2</sup> 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 <sup>2</sup> 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 <sub>A</sub> =30°C on aluminum substrate (Note 3)         Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load         I <sup>2</sup> 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 <sub>A</sub> =30°C on aluminum substrate (Note 3)         Peak Forward Surge Current, 8.3ms singlehalf sine-wave superimposed on rated load         I <sup>2</sup> 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  $0.05 \times 0.05$  "( $13 \times 13$  mm) solder pad.





PAGE . 2