

7. SILICON BRIDGE RECTIFIERS



T-23-01

The plastic material used in the bridges of 0.5 to 8 ampere rating carries U/L recognition 94V-O.

For Capacitance Load Derate Current by 20%.

Individual Technical Data Sheets Giving Rating and Characteristic Curves are Available

OPERATIONAL TEMPERATURE RANGE -55° to 125°C
STORAGE TEMPERATURE RANGE -55° to 150°C

Type	PRV	Max Avg Rect Current @ Half-Wave Res Load 60Hz		Max Fwd Peak Surge Current 1 ~ 60Hz Superimposed	Max Reverse Current @ PRV Voltage @ 25°C T_A	Max Fwd Voltage @ 25°C T_A		Avalanche Breakdown Voltage		Max Rev Recovery Time
		I_O @ T_A				I_{FM}	V_{FM}	MIN	MAX	
	VPK	AAV	$^{\circ}\text{C}$	APK	μA_{dc}	APK	VPK	VPK		ns
7-1 1 TO 2 AMPERE/WB OUTLINE										
WB100	50	1.0	25	50	10	1.0	1.0			
WB101	100	1.0	25	50	10	1.0	1.0			
WB102	200	1.0	25	50	10	1.0	1.0			
WB104	400	1.0	25	50	10	1.0	1.0			
WB106	600	1.0	25	50	10	1.0	1.0			
WB108	800	1.0	25	50	10	1.0	1.0			
WB110	1000	1.0	25	50	10	1.0	1.0			
WB150	50	1.5	25	50	10	1.0	1.0			
WB151	100	1.5	25	50	10	1.0	1.0			
WB152	200	1.5	25	50	10	1.0	1.0			
WB154	400	1.5	25	50	10	1.0	1.0			
WB156	600	1.5	25	50	10	1.0	1.0			
WB158	800	1.5	25	50	10	1.0	1.0			
WB1510	1000	1.5	25	50	10	1.0	1.0			
WB200	50	2.0	25	50	10	1.0	1.0			
WB201	100	2.0	25	50	10	1.0	1.0			
WB202	200	2.0	25	50	10	1.0	1.0			
WB204	400	2.0	25	50	10	1.0	1.0			
WB206	600	2.0	25	50	10	1.0	1.0			
WB208	800	2.0	25	50	10	1.0	1.0			
WB210	1000	2.0	25	50	10	1.0	1.0			
7-2 1 TO 2 AMPERE/SB200 OUTLINE										
3N246	50	1.0	75	30	10	3.14	1.3			
3N247	100	1.0	75	30	10	3.14	1.3			
3N248	200	1.0	75	30	10	3.14	1.3			
3N249	400	1.0	75	30	10	3.14	1.3			
3N250	600	1.0	75	30	10	3.14	1.3			
3N251	800	1.0	75	30	10	3.14	1.3			
3N252	1000	1.0	75	30	10	3.14	1.3			
3N253	50	2.0	55	60	10	3.14	1.1			
3N254	100	2.0	55	60	10	3.14	1.1			
3N255	200	2.0	55	60	10	3.14	1.1			
3N256	400	2.0	55	60	10	3.14	1.1			
3N257	600	2.0	55	60	10	3.14	1.1			
3N258	800	2.0	55	60	10	3.14	1.1			
3N259	1000	2.0	55	60	10	3.14	1.1			
SB200	50	2.0	50	60	10	1.0	1.0			
SB201	100	2.0	50	60	10	1.0	1.0			
SB202	200	2.0	50	60	10	1.0	1.0			
SB204	400	2.0	50	60	10	1.0	1.0			
SB206	600	2.0	50	60	10	1.0	1.0			
SB208	800	2.0	50	60	10	1.0	1.0			
SB210	1000	2.0	50	60	10	1.0	1.0			
7-3 4 AMPERE/SB400 OUTLINE										
SB400	50	4	50	200	10	3.0	1.2			
SB401	100	4	50	200	10	3.0	1.2			
SB402	200	4	50	200	10	3.0	1.2			
SB404	400	4	50	200	10	3.0	1.2			
SB406	600	4	50	200	10	3.0	1.2			
SB408	800	4	50	200	10	3.0	1.2			
SB410	1000	4	50	200	10	3.0	1.2			

10. CONSTRUCTION & OUTLINE DRAWING

AXIAL LEAD RECTIFIERS

T-91-20

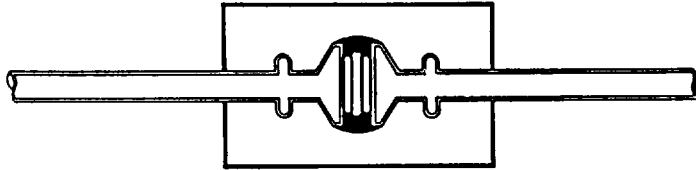
DO-41	DO-15	DO-201AD	P600	Series
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FEATURES

- Low cost, Hi-quality, Hi-reliable.
- Diffused junction.
- Low leakage current.
- High forward surge current capability.
- Plastic molded material with UL recognition 94V-O, the DO-41/DO-15/DO-201AD are per JEDEC molded package.

- Terminals: Plated axial leads solderable per MIL-STD-202 Method 208.
- Polarity: Band denotes cathode.
- Mounting position: Any.
- Weight:

TYPE	DO-41	DO-15	DO-201AD	P600
Ounce	0.012	0.015	0.04	0.06
Gram	0.3	0.4	1.1	1.7

**BRIDGE RECTIFIERS**

- Lead wires terminals solderable per MIL-STD-202 Method 208.
- Under $T_A = 55^\circ\text{C}$ & rated current operation with no thermal run-away.

WB100	WB200	Series
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FEATURES

- Ratings to 1000V BVR.
- Surge over-load rating – 50 Amperes Peak.
- Ideal for printed circuit board.
- Reliable construction utilized UL recognition 94V-O epoxy.
- Mounting position: Any.
- Weight: 0.05 ounce/1.3 gms.

NOTE: Insulated ceramic case available.

SB200	Series
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FEATURES

- Ratings to 1000V BVR.
- Surge over-load rating – 60 Amperes Peak.
- Ideal for printed circuit board.
- Reliable construction utilized plastic with UL recognition 94V-O material.
- Mounting position: Any.
- Weight: 0.13 ounce/3.6 gms.

SB400	Series
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FEATURES

- Ratings to 1000V BVR.
- Surge over-load rating – 200 Amperes Peak.
- Ideal for printed circuit board.
- Reliable construction utilized molded plastic with UL recognition 94V-O material.
- Mounting position: Any.
- Weight: 0.18 ounce/4.95 gms.

DB600	Series
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FEATURES

- Ratings to 1000V BVR.
- Surge over-load rating – 125 Amperes Peak.
- Ideal for printed circuit board.
- Reliable construction utilized UL recognition 94V-O epoxy.
- Mounting position: Any.
- Weight: 0.24 ounce/6.9 gms.

NOTE: Insulated ceramic case available.

DB1200	DB1500	DB2500	DB3500	Series
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FEATURES

- Rating to 1000V BVR.
- Surge over-load rating

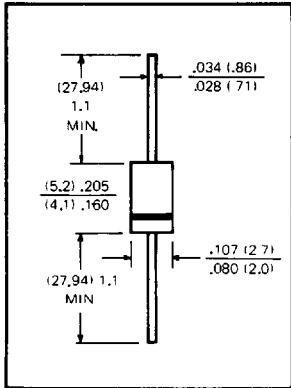
TYPE	SURGE CAPABILITY
DB1200	300 Amperes
DB1500	300 Amperes
DB2500	300 Amperes
DB3500	400 Amperes

- Metal case with insulated epoxy coating and very reliable construction.
- Mounting position: Any.
- Ideal for printed circuit board.
- Weight: 1.09 ounce/30 gms.

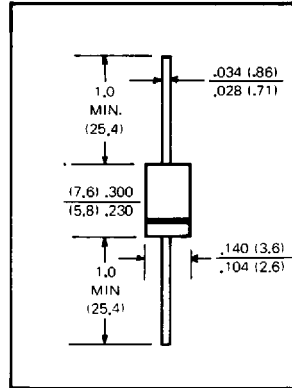
NOTE: Insulated ceramic case available.

CASE DRAWINGS

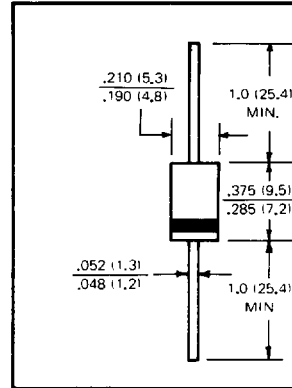
DO41



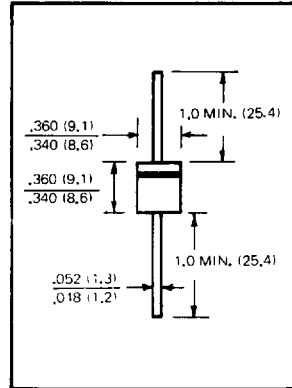
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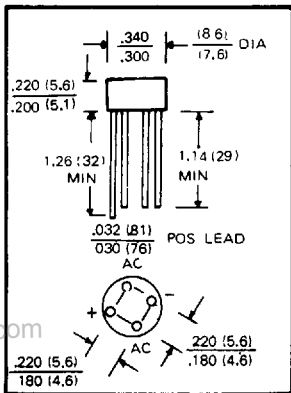
DO201 AD



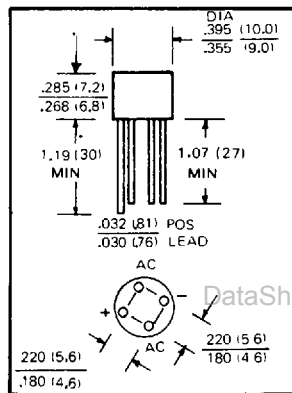
P600



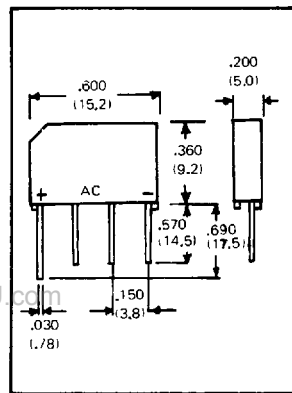
WB100



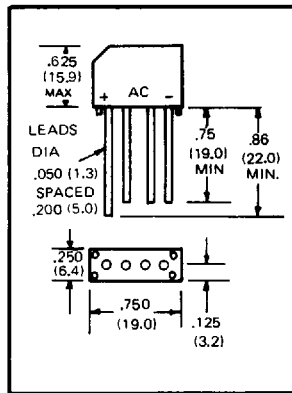
WB200



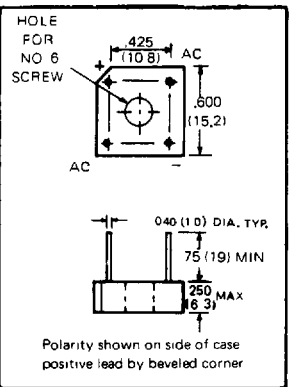
SB200



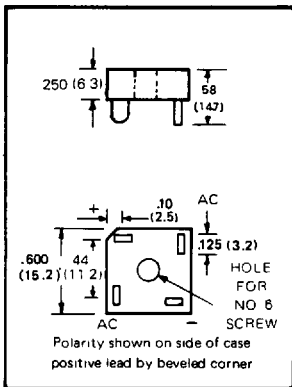
SB400



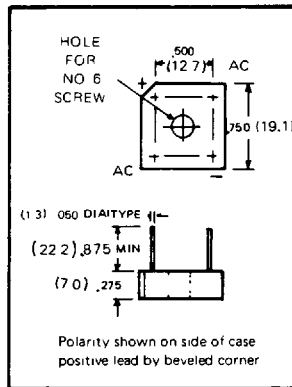
DB600W



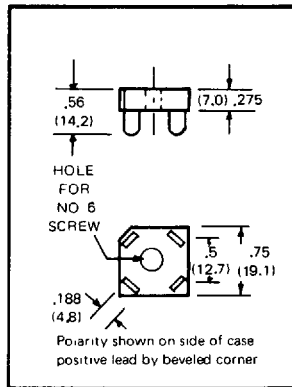
DB600T



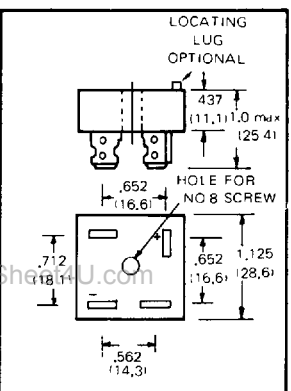
DB1200W



DB1200T



DB2500T



DB2500W

