



## 35 AMP SILICON BRIDGE RECTIFIERS

### FEATURES

- PRV Ratings from 50 to 1000 Volts
- Surge overload rating to 400 Amps peak
- High efficiency
- Heat sink integrally mounted in the molded bridge encapsulation

**UL RECOGNIZED - FILE #E141956**

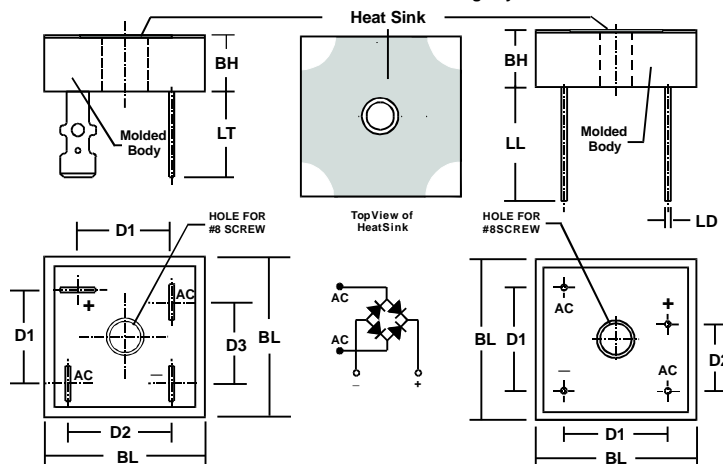
### MECHANICAL DATA

- Case: Molded plastic, U/L Flammability Rating 94V-0
- Terminals: Round silver plated copper pins or fast-on terminals
- Soldering: Per MIL-STD 202 Method 208 guaranteed (Note 1)
- Polarity: Marked on side of case
- Mounting Position: Any. Through hole for #8 screw.  
Max. mounting torque = 20 in-lb.
- Weight: Fast-on Terminals - 0.7 Ounces (20.0 Grams)  
Wire Leads - 0.55 Ounces (16.0 Grams)

### MECHANICAL SPECIFICATION

#### SERIES: DB3500P - DB3510P and ADB3504P - ADB3508P

Suffix "P" indicates molded PLASTIC with integrally mounted Heat Sink



SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
BL	28.4	28.7	1.12	1.13
BH	9.6	9.8	0.38	0.39
D1	15.7	16.7	0.62	0.66
D2	17.5	18.5	0.69	0.73
D3	13.5	14.5	0.53	0.57
LT	n/a	15.2	n/a	0.6

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	MIN	MAX	MIN	MAX
BL	28.4	28.7	1.12	1.13
BH	9.6	9.8	0.38	0.39
D1	17.5	18.5	0.69	0.73
D2	10.9	11.9	0.43	0.47
LL	20.6	n/a	0.81	n/a
LD	1.0	1.1	0.039	0.042

Suffix "T" indicates FAST-ON TERMINALS

Suffix "W" indicates WIRE LEADS

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive loads, derate current by 20%.

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS										UNITS
		CONTROLLED AVALANCHE			NON-CONTROLLED AVALANCHE							
Series Number		ADB 3504P	ADB 3506P	ADB 3508P	DB 3500P	DB 3501P	DB 3502P	DB 3504P	DB 3506P	DB 3508P	DB 3510P	
Maximum DC Blocking Voltage	V <sub>RM</sub>	400	600	800	50	100	200	400	600	800	1000	VOLTS
Working Peak Reverse Voltage	V <sub>RWM</sub>											
Maximum Peak Recurrent Reverse Voltage	V <sub>RRM</sub>											
RMS Reverse Voltage	V <sub>R</sub> (RMS)	280	420	560	35	70	140	280	420	560	700	
Thermal Energy (Rating for Fusing)	I <sup>2</sup> t	664										AMPS <sup>2</sup> SEC
Peak Forward Surge Current (8.3 mSec single half sine wave superimposed on rated load)	I <sub>FSM</sub>	400										AMPS
Average Forward Rectified Current @ T <sub>c</sub> = 55 °C (Note 2)	I <sub>o</sub>	35										
Junction Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150										°C
Mimimum Avalanche Voltage	V <sub>(BR)</sub> Min	450	650	850	n/a							VOLTS
Maximum Avalanche Voltage	V <sub>(BR)</sub> Max	900	1100	1300	n/a							
Maximum Forward Voltage (Per Diode) at 17.5 Amps DC	V <sub>FM</sub>	1.1										
Maximum Reverse Current at Rated V <sub>RM</sub> 												

NOTES: (1) Maximum soldering time and temperature = 10 Sec @ 265 °C  
(2) Unit Mounted on Metal Chassis.  
(3) Mounted on an 11.8 in.<sup>2</sup> x 0.06 in. thick (300mm<sup>2</sup> x 1.5mm thick) copper plate.