

35 AMP FAST RECOVERY BRIDGE RECTIFIERS

FEATURES

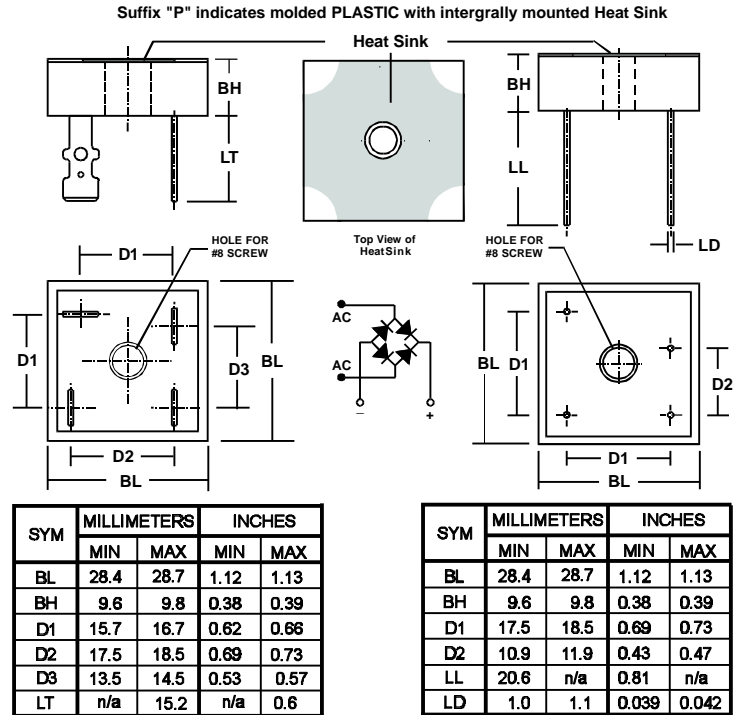
- PRV Ratings from 50 to 1000 Volts
- Surge overload rating to 400 Amps peak
- Reliable low cost molded plastic construction
- Ideal for printed circuit board applications
- Fast switching for high efficiency
- **UL RECOGNIZED - FILE #E141956**

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
- 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 FDB3500P - FDB3510P



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
		FDB 3500P	FDB 3501P	FDB 3502P	FDB 3504P	FDB 3506P	FDB 3508P	FDB 3510P	
Series Number									
Maximum DC Blocking Voltage	V _{RM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	
Maximum Peak Recurrent Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	
Average Forward Rectified Current @ T _c = 55 °C	I _O	35							AMPS
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	I _{FSM}	400							
Maximum Forward Voltage, Per Diode, at 17.5 Amps DC	V _{FM}	1.3							VOLTS
Maximum Average DC Reverse Current at Rated DC Blocking Voltage Per Diode (Note 2)	I _{RM}	10							μA mA
		1							
Maximum Reverse Recovery Time (Note 1)	T _{RR}	200		300		500		nS	
Thermal Energy (Rating for Fusing, t < 8.3 mS)	i ² t	664							AMPS ² SEC
Typical Thermal Resistance, Junction to Ambient (Note 2)	R _{θJA}	2.5							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

NOTES: (1) T_J=25°C, I_F=0.5A, I_R=1A, I_{RR}=0.25A
 (2) Mounted on an 11.8 in.² x 0.06 in thick (300mm² x 1.5mm thick) copper plate

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