

DIOTEC ELECTRONICS CORP. 18020 Hobart Blvd., Unit B Gardena, CA 90248 U.S.A

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3 AMP FAST RECOVERY BRIDGE RECTIFIERS

FEATURES

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

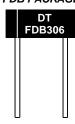
UL RECOGNIZED - FILE #E124962

MECHANICAL DATA

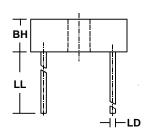
- Case: Molded plastic, U/L Flammability Rating 94V-0
- Terminals: Round silver plated copper pins
- Soldering: Per MIL-STD 202 Method 208 guaranteed
- Polarity: Marked on side of case; positive lead at beveled corner
- Mounting Position: Any. Through hole provided for #6 screw
- Weight: 0.11 Ounces (3.36 Grams)

MECHANICAL SPECIFICATION

ACTUAL SIZE OF FDB PACKAGE



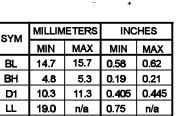




SERIES FDB300 - FDB310

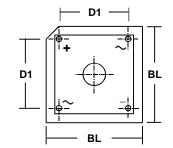


0.035



0.9

0.028



MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

LD

0.7

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	
Series Number		FDB 300	FDB 301	FDB 302	FDB 304	FDB 306	FDB 308	FDB 310	
Maximum DC Blocking Voltage	Vrm	50	100	200	400	600	800	1000	
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum Peak Recurrent Reverse Voltage	VRRM	50	100	200	400	600	800	1000	
Average Forward Rectified Current @ Tc = 50 °C	lo	2							AMPS
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	IFSM	50							
Maximum Forward Voltage (Per Diode) at 1.5 Amps DC	VFM	1.3							VOLTS
Maximum Average DC Reverse Current at Rated @ Ta = 25°C DC Blocking Voltage @ Ta = 100°C		10 1							μ Α mA
Maximum Reverse Recovery Time (Note 1)	Trr	200			30	300 5		00	nS
Thermal Energy (Rating for Fusing, t < 8.3 mS)	l²t	10							AMPS ² SEC
Maximum Thermal Resistance, Junction to Case (Note 2)	Rејс	2.5							°C/W
Junction Operating and Storage Temperature Range	TJ, Tsтg	-55 to +150							°C

NOTES: (1) TJ=25°C, I=0.5A, I=1A, I=0.25A (2) Bridge mounted on 4.0" sq. x 0.11" thick (10.5cm sq. x 0.3cm) aluminum plate