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

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1.5 AMP SOFT RECOVERY FAST SWITCHING BRIDGE RECTIFIERS

FEATURES

- TRUE SOFT RECOVERY CHARACTERISTIC WITH NO RINGING, SPIKES, or OVERSHOOT
- HIGH FREQUENCY: 250 kHz FAST RECOVERY: 100nS - 150nS
- UNMATCHED PERFORMANCE Minimal RFI/EMI Reduced Power Losses, Extremely Cool Operation Increased Power Supply Efficiency
- VOID FREE Vacuum Die Soldering For Maximum Mechanical Strength And Heat Dissipation (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- Proprietary Junction Passivation For Superior Reliability and Performance
- Wide Range of Applications: Motor Speed Controllers, Inverters, Converters, Choppers, Power Supplies, etc.
- UL RECOGNIZED FILE #E141956

RoHS COMPLIANT

MECHANICAL DATA

• Case: Molded Epoxy, U/L Flammability Rating 94V-0

• Terminals: Round silver plated pins

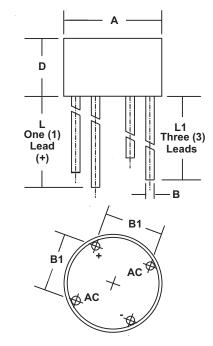
• Soldering: Per MIL-STD 202 Method 208 guaranteed

Polarity: Marked on caseMounting Position: Any

• Weight: 0.04 Ounces (1.1 Grams)

MECHANICAL SPECIFICATION





SYM	MILLIN	IETERS	INCHES				
	MIN	MAX	MIN	MAX			
Α	8.6	8.89	0.340	0.350			
В	0.76	0.81	0.030	0.032			
B1	4.6	5.6	0.180	0.220			
D	5.1	5.6	0.200	0.220			
L	30.5	n/a	1.20	n/a			
L1	25.4	n/a	1.0	n/a			

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	
Series Number			FWB 150-S	FWB 151-S	FWB 152-S	FWB 154-S	FWB 156-S	FWB 158-S		
Maximum DC Blocking Voltage		VRM	50	100	200	400	600	800		
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	VOLTS	
Maximum Peak Recurrent Reverse Voltage		VRRM	50	100	200	400	600	800		
Average Forward Rectified Current @ TA = 25 °C	lo	1.5								
Peak Forward Surge Current. Single Half-Sine Wave Superimposed on Rated Load (JEDEC Method). TJ = 125 °C		İFSM	50					AMPS		
Maximum Forward Voltage (Per Diode) at 1 Amp DC		VFM	1.25					VOLTS		
Maximum Average DC Reverse Current At Rated @ TA = 25 DC Blocking Voltage) @ TA = 125		lRM	1.2 0.10					μ Α mA		
Maximum Reverse Recovery Time		Trr	150					nS		
Typical Thermal Resistance, Junction to Case		R⊕JL	15					°C/W		
Junction Operating and Storage Temperature Range		TJ, TSTG	-55 to +175					°C		