35 AMP SILICON BRIDGE RECTIFIERS

FEATURES

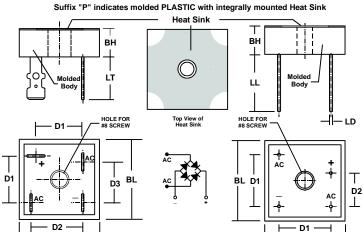
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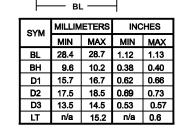
- VOID FREE VACUUM DIE SOLDERING FOR MAXIMUM MECHANICAL STRENGTH AND HEAT DISSIPATION (Solder Voids: Typical < 2%, Max. < 10% of Die Area)
- BUILT-IN STRESS RELIEF MECHANISM FOR SUPERIOR RELIABILITY AND PERFORMANCE
- INTEGRALLY MOLDED HEAT SINK PROVIDES VERY LOW THERMAL RESISTANCE FOR MAXIMUM HEAT DISSIPATION
- UL RECOGNIZED FILE #E141956

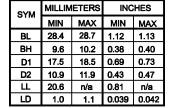
MECHANICAL DATA

- 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: DB3500P - DB3510P and ADB3504P - ADB3508P





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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										
		CONTROLLED NON-CONTROLLED AVALANCHE AVALANCHE									UNITS	
Series Number		ADB 3504P	ADB 3506P	ADB 3508P	DB 3500F	DB 3501F	DB 3502P	DB 3504P	DB 3506P	DB 3508P	DB 3510P	
Maximum DC Blocking Voltage	Vrm		600	800	50	100	200	400	600	800	1000	VOLTS
Working Peak Reverse Voltage	Vrwm											
Maximum Peak Recurrent Reverse Voltage	Vrrm											
RMS Reverse Voltage	VR (RMS)		420	560	35	70	140	280	420	560	700	
Rating for Fusing (Non Repetitive; 1mS < t < 8.3mS)	l²t	664									AMPS ² SEC	
Peak Forward Surge Current. Single 60Hz Half-Sine Wave Superimposed on Rated Load (JEDEC Method). TJ = 150° C	IFSM	400										AMPS
Average Forward Rectified Current @ Tc = 50° C	lo	35										
Junction Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150									°C	
Mimimum Avalanche Voltage	V(BR) Min	See Note 1 n/a								VOLTS		
Maximum Avalanche Voltage	V(BR) Max	See Note 1 n/a										
Maximum Forward Voltage (Per Diode) at 17.5 Amps DC	Vfm	1.05										
Maximum Reverse Current at Rated VRM@ TA = 25° С @TA = 125° С		1 50									μΑ	
Minimum Insulation Breakdown Voltage (Circuit to Case)	Viso	2500									VOLTS	
Typical Thermal Resistance, Junction to Case	Rejc	1.2									°C/W	

NOTES: (1) These bridges exhibit the avalanche characteristic at breakdown. If your application requires a specific breakdown voltage range, please contact us.



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RATING & CHARACTERISTIC CURVES FOR SERIES DB3500P - DB3510P and SERIES ADB3504P - ADB3508P

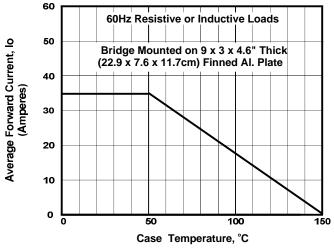


FIGURE 1. FORWARD CURRENT DERATING CURVE

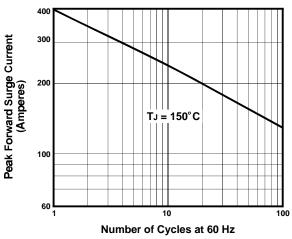


FIGURE 2. MAXIMUM NON-REPETITIVE SURGE CURRENT

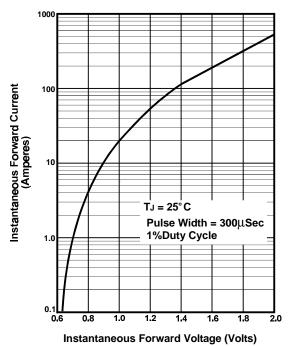


FIGURE 3. TYPICAL FORWARD CHARACTERISTIC PER DIODE

