

35 AMP SILICON BRIDGE RECTIFIERS

FEATURES

- PRV Ratings from 50 to 1000 Volts
- Surge overload rating to 400 Amps peak
- High efficiency ٠
- Electrically isolated metal case for maximum heat dissipation

UL RECOGNIZED - FILE #E141956

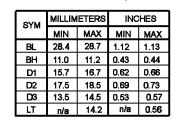
MECHANICAL DATA

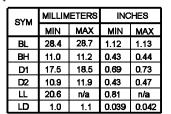
- Case: Metal (Potting epoxy carries U/L flammability Rating 94V-0) •
- Terminals: Round silver plated copper pins or fast-on terminals
- Soldering: Per MIL-STD 202 Method 208 guaranteed (Note 1)
- Polarity: Marked on side of case
- Mounting Position: Any. Through hole for #8 screw. Max. mounting torque = 20 in-lb.
- Weight: Fast-on Terminals 1.1 Ounces (31.6 Grams) Wire Leads - 0.95 Ounce (28.5 Grams)

Т Metal Case (Top & Sides) BH Electrically isolated BH 1 С LT LL HOLE FOR LD #8 SCREW D1 . BL D1 D1 BL D3 D2 AC D2 D1 BI RI

MECHANICAL SPECIFICATION

SERIES: DB3500 - DB3510 and ADB3504 - ADB3508





Suffix "T" indicates FAST-ON TERMINALS

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 3504	ADB 3506	ADB 3508	DB 3500	DB 3501	DB 3502	DB 3504	DB 3506	DB 3508	DB 3510	
Maximum DC Blocking Voltage	Vrm	VRM VRWM VRRM			50							
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	
Thermal Energy (Rating for Fusing)	l²t	664									AMPS SEC	
Peak Forward Surge Current (8.3 mSec single half sine wave superimposed on rated load)	IFSM	400										AMPS
Average Forward Rectified Current @ Tc = 50 °C (Note 2)	lo	35										
Junction Operating and Storage Temperature Range	Тј, Тѕтс	-55 to +150										°C
Mimimum Avalanche Voltage	V(BR) Min	450 650 850 n/a								VOLTS		
Maximum Avalanche Voltage	V(BR) Max	900 1100 1300 n/a										
Maximum Forward Voltage (Per Diode) at 17.5 Amps DC	Vfm	1.1										
Maximum Reverse Current at Rated Vrм @ TA = 25°С @ TA = 100°С	IRM	1 5										μΑ
Minimum Insulation Breakdown Voltage (Circuit to Case)	Viso	2000									VOLT	
Typical Thermal Resistance (on Heat Sink); Junction to Ambient (Note 3)	R₀jc R₀j∟	1.2 0.8									°C/W	

NOTES: (1) Maximum soldering time and temperature = 10 Sec @ 265 °C

(2) Unit Mounted on Metal Chassis.
(3) Mounted on an 11.8 in.² x 0.06 in. thick (300mm² x 1.5mm thick) copper plate.

Suffix "W" indicates WIRE LEADS