

## 35 AMP HIGHFREQUENCY SOFTRECOVER Y BRIDGERECTIFIERS

### FEATURES

- TRUESOFTRECOVER Y CHARACTERISTICWITH NORINGING ,SPIKES,orOVERSHOOT
- HIGHFREQUENCY :250kHz FASTRECOVER Y:100nS-150nS
- UNMATCHEDPERFORMANCE-MinimalRFI/EMI ReducedPowerLosses,ExtremelyCoolOperation IncreasedPowerSupplyEfficiency
- VOIDFREEV acuumDieSolderingForMaximum MechanicalS trength AndHeatDissipation (SolderV oids:T ypical<2%,Max.<10%ofDie Area)
- Proprietary SOFTGLASS JunctionPassivation ForSuperiorReliabilityandPerformance
- WideRangeof Applications-Inverters,Converters Choppers,PowerSupplies,etc.

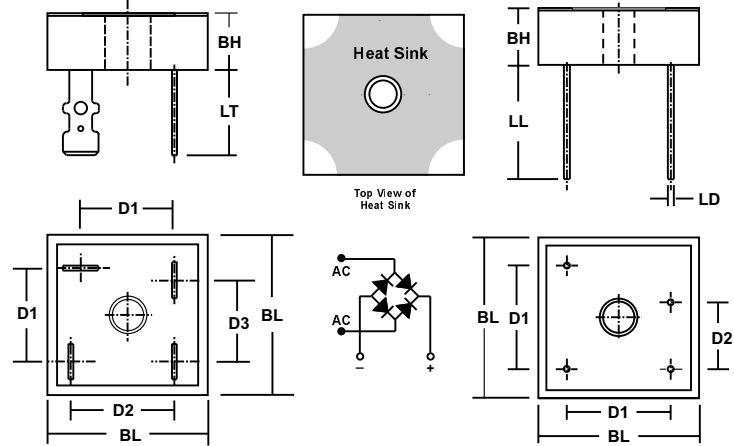
**UL RECOGNIZED-FILE#E141956**

**RoHSCOMPLIANT**

### MECHANICAL DATA

- Case: Case:Moldedepoxywithintegralheatsink EpoxycarriesaUL Flammabilityratingof94V -0
- Terminals:Roundsilverplatedcopperpinsorfast-onterminals
- Soldering:PerMIL-STD202Method208guaranteed
- Polarity:Markedonsideofcase
- MountingPosition: AnyThroughholefor#8screw Max.mountingtorque=20in-lb.
- Weight:Fast-onT erminals-0.7Ounces(20.0Grams) WireLeads-0.55Ounces(16.0Grams)

### MECHANICAL SPECIFICATION



SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
BL	28.4	28.7	1.12	1.13
BH	9.6	9.8	0.38	0.39
D1	15.7	16.7	0.62	0.66
D2	17.5	18.5	0.69	0.73
D3	13.5	14.5	0.53	0.57
LT	n/a	15.2	n/a	0.6

UseSuffix"T"For FAST-ON TERMINALS

EXAMPLEP/N:DB3506P/T -S

SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
BL	28.4	28.7	1.12	1.13
BH	9.6	9.8	0.38	0.39
D1	17.5	18.5	0.69	0.73
D2	10.9	11.9	0.43	0.47
LL	20.6	n/a	0.81	n/a
LD	1.0	1.1	0.039	0.042

UseSuffix"W"For WIRELEADS

EXAMPLEP/N:DB3506P/W -S

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.

PARAMETER(TEST CONDITIONS)	SYMBOL	RATINGS					UNITS
		DB 3500P-S	DB 3501P-S	DB 3502P-S	DB 3504P-S	DB 3506P-S	
Series Number							
Maximum DC Blocking Voltage	V <sub>RM</sub>	50	100	200	400	600	VOLTS
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	
Maximum Peak Recurrent Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	
Average Forward Rectified Current, T <sub>c</sub> = 50 °C	I <sub>o</sub>	35					AMPS
Peak Forward Surge Current (8.3ms single half sine wave superimposed on rated load)	I <sub>FSM</sub>	400					
Maximum Forward Voltage, Per Diode, at 17.5 Amps DC	V <sub>FM</sub>	1.2					VOLTS
Maximum Average DC Reverse Current at Rated DC Blocking Voltage Per Diode	I <sub>RM</sub>	1.0					μA
		50					
Maximum Reverse Recovery Time	T <sub>RR</sub>	150(T <sub>yp</sub> .100)					nS
Typical Thermal Resistance, Junction to Case	R <sub>θJC</sub>	1.2					°C/W
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to +150					°C

NOTES: (1) Bolt bridge on heatsink using #8 screw, using silicon thermal compound between bridge and mounting surface