

| L SERIES

POWER MODULES



Features

- Low Profile
- 3 different circuits to choose from
- Designed for printed circuit board connections
- UL recognized E72445

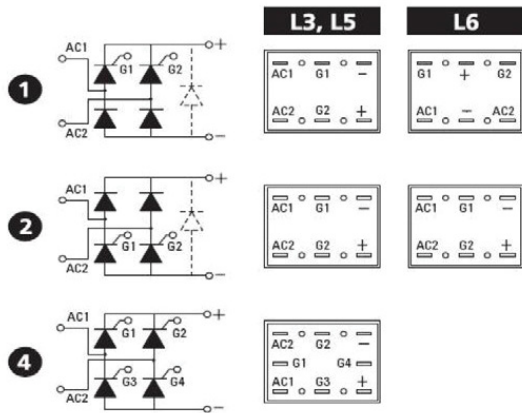
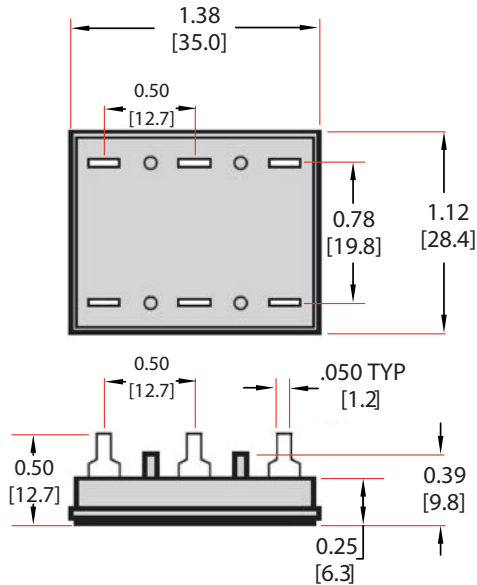
SPECIFICATIONS

Electrical

Description	Symbol	L3	L5	L6
Maximum DC Output Current (Tc=85°C)	I _D	15 A	25 A	42.5 A
Maximum Voltage Drop @ Amps Peak	V _F	2.2 V @ 15 A	1.6V @ 25 A	1.6 V @ 42.5 A
Operating Junction Temperature Range	T _J	40 - 125° C		
Critical Rate of Rise of On-State Current @ T _J =125°C	di/dt	100 A/μsec		
Critical Rate of Rise of Off-State Voltage [V/μsec]	dv/dt	500 V/μsec		
AC Line Input Voltage (Repetitive Peak Reverse Voltage)	V _{RMS}	120 (400 V _{RRM})		
		240 (600 V _{RRM})		
		280 (800 V _{RRM})		
		480 (1200 V _{RRM})		
Maximum Non-Repetitive Surge Current (1/2 Cycle, 60 Hz) [A]	I _{TSM}	225	300	600
Maximum I ² t for Fusing (t=8.3ms)[A ² sec]	I ² t	210	375	1500
Maximum Required Gate Current to Trigger @ 25°C [mA]	I _{GT}	60	60	80
Maximum Required Gate Voltage to Trigger @ 25°C [V]	V _{GT}	2.5	2.5	3.0
Average Gate Power [W]	P _{G(AV)}	0.5	0.5	0.5
Maximum Peak Reverse Gate Voltage [V]	V _{GM}	5.0	5.0	5.0
Maximum Thermal Resistance, Junction to Ceramic Base per Chip [°C/W]	R _{JC}	1.25	0.9	0.7
Isolation Voltage [Vrms]	V _{ISOL}	2500		
Weight (Typical)		0.5 oz (14.4g)		

MECHANICAL DIMENSIONS

Tolerance, unless otherwise noted:
All dimensions are in millimeters [inches]



ORDERING OPTIONS

Example : L512F

Series	L	5	1	2	F
Load Current					
3: 15Amps					
4: 20Amps					
5: 25Amps					
6: 42.5Amps (not for Circuit 4)					
Circuit Type					
1 2 4					
See Schematic Diagram					
AC Line Voltage					
1: 120 VAC					
2: 240 VAC					
3: 280 VAC					
4: 480 VAC					
Free Wheeling Diode					
Blank: Not included					
F: Included (Circuits 1 & 2 only)					

Required for valid part number
For options only and not required for valid part number

NOTE: Not all combinations are available.
Consult factory for information on the availability of a specific part number.

AGENCY APPROVALS & CERTIFICATIONS



WARNINGS



RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.



HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions will result in death or serious injury.

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