

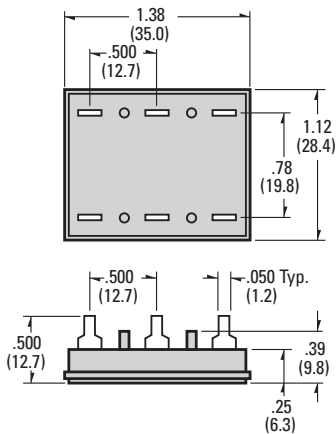
- Low Profile
- Designed for Printed Circuit Board Connections

Circuit Modules provide ratings up to 42.5 amps in a low profile package designed for printed circuit board connections. Available in three standard bridge circuits and an AC switch version, all models have 2500 Vrms isolation and are UL recognized (file no. E72445).

Manufactured in Crydom's ISO 9001 Certified facility for optimum product performance and reliability. Mounting clip available, order part number LMC-1.

## MECHANICAL DIMENSIONS

All dimensions are in inches (millimeters)

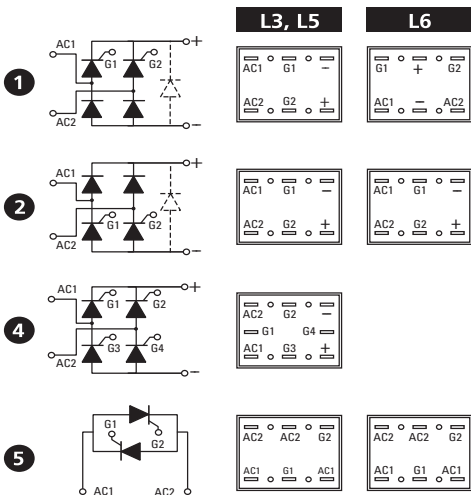


## PART NUMBER IDENTIFICATION

Series Type	Current	Circuit Type	AC Line Voltage	Options
L-Case style	3 - 15 Amps	1 - 5	1 - 120 Vac	F - Free
(Ceramic Base)	5 - 25 Amps	(see schematic diagrams)	2 - 240 Vac	Wheeling Diode
	6 - 42.5 Amps*		3 - 280 Vac	(Circuits 1,2 only)
			4 - 480 Vac	

Example: L512F \* 42.5 Amp Rating Not Available In Circuit 4

ELECTRICAL SPECIFICATIONS		MODEL NO.	L3	L5	L6
$I_D$	Maximum DC Output Current ( $T_c = 85^\circ\text{C}$ )		15A	25A	42.5A
$V_F$	Maximum Voltage Drop @ Amps Peak		2.2V @ 15A	1.65V @ 25A	1.6V @ 42.5A
$T_J$	Operating Junction Temperature Range		-40°C to +125°C		
di/dt	Critical Rate of Rise of On-State Current @ $T_J=125^\circ\text{C}$		100A/ $\mu\text{s}$		
dv/dt	Critical Rate of Rise of Off-State Voltage		500V/ $\mu\text{s}$	500V/ $\mu\text{s}$	500V/ $\mu\text{s}$
$V_{RMS}$	AC Line Input Voltage (Repetitive Peak Reverse Voltage)		120 (400 V RRM)	240 (600 V RRM)	280 (800 V RRM)
			480 (1200 V RRM)		
$I_{TSM}$	Maximum Non-Repetitive Surge Current (1/2 Cycle, 60Hz)		225A	300A	600A
$I^2T$	Maximum $I^2T$ for Fusing ( $t=8.3\text{ms}$ ) [A <sup>2</sup> sec]		210	375	1500
$I_{GT}$	Maximum Required Gate Current to Trigger @ 25°C		100mA	100mA	100mA
$V_{GT}$	Maximum Required Gate Voltage to Trigger @ 25°C		2.5V	2.5V	3.0V
$P_{G(AV)}$	Average Gate Power		0.5W	0.5W	0.5W
$V_{GM}$	Maximum Peak Gate Voltage (Reverse)		5.0V	5.0V	5.0V
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip		1.25°C/W	0.9°C/W	0.7°C/W
$V_{ISOL}$	Isolation Voltage		2500 V <sub>RMS</sub>	2500 V <sub>RMS</sub>	2500 V <sub>RMS</sub>



## MECHANICAL SPECIFICATIONS

Weight: (typical) .5 oz. (14.4 g)

© 2008 CRYDOM Inc., Specifications subject to change without notice.

## APPROVALS

UL E72445

SERIES L.

PAGE 1 OF 2

