

T-25-23

CRYDOM

PART NUMBER IDENTIFICATION

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

Example: L512F

* 42.5 Amp Rating Not Available In Circuit 4

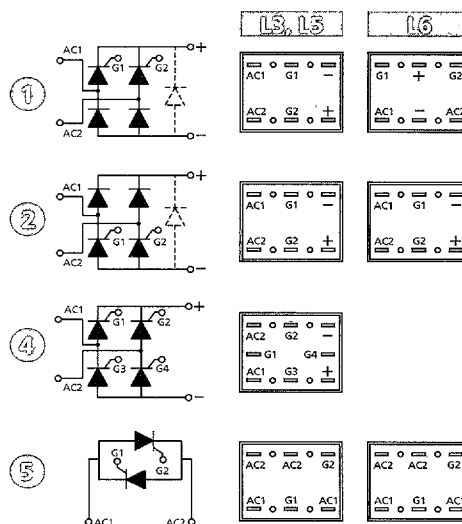
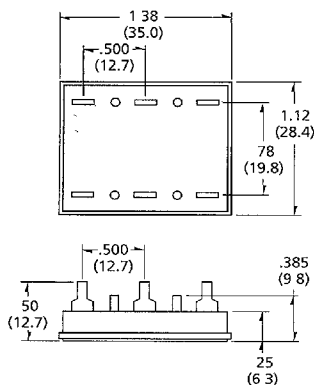
ELECTRICAL SPECIFICATIONS

SYMBOL	SPECIFICATION	L3	L5	L6
I_D	Maximum DC Output Current @ $T_c = 85^\circ\text{C}$ (A)	15	25	42.5
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 $+125^\circ\text{C}$		
di/dt	Critical Rate of Rise of On-State Current @ $T_J = 125^\circ\text{C}$ (A/ μs)	100		
dV/dt	Critical Rate of Rise of Off-State Voltage @ $T_J = 125^\circ\text{C}$ (V/ μs)	500		
V_{RMS}	AC Line Input Voltage (Repetitive Peak Reverse Voltage)	— 120 (400 V_{RRM}) —	— 240 (600 V_{RRM}) —	— 280 (800 V_{RRM}) —
I_{TSM}	Maximum Non-Repetitive Surge Current (A) [$1/2$ Cycle, 60Hz]	225	300	600
I_{T^2}	Maximum I^2T for Fusing (A^2sec) [$t = 8.3\text{ms}$]	210	375	1500
I_{GT}	Maximum Required Gate Current to Trigger @ 25°C (mA)	60	60	80
V_{GT}	Maximum Required Gate Voltage to Trigger @ 25°C (V)	2.5	2.5	3.0
$P_{G(AV)}$	Average Gate Power	0.5W		
V_{GM}	Maximum Peak Gate Voltage (Reverse)	5.0V		
$R_{\theta JC}$	Maximum Thermal Resistance Junction to Ceramic Base per Chip	1.25 $^\circ\text{C/W}$	0.9 $^\circ\text{C/W}$	0.7 $^\circ\text{C/W}$
V_{ISOL}	Isolation Voltage	— 2500 V_{RMS} —		

MECHANICAL

SERIES L CIRCUITS

All dimensions are in inches (millimeters)



Series L

15-42.5Amp
SCR/DIODE MODULES

- 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 V_{rms} isolation and are UL recognized (file no. E72445).