



- Notes:
1. The resistor & capacitor on output of relays U2 - U4 were chosen to protect relays against inductive loads up to 1 uH @ 10 amps & 30 volts when none of the snubbing connections are made. These values were chosen based on relay CMX60D10 which is rated up to 60 volts at 10 amps. Time constant of RC pair should also be much less than the 1 ms turn on time of the relay.
 2. Crydom DC Relays: 3 amps, 60 Vdc.
 3. 200 Ohm nominal Input Impedance, 20 mAdc typical input current @ 5 volts.
 4. 1 V must turn-off voltage, 3 V must turn-on voltage.
 5. Signals RO-R3 are active low (a 0 written to the corresponding address turns it on).
 6. This was done to make the CPLD design for both AC and DC relay modules identical.
 7. Resistors with values in parentheses are not installed.
 8. J1 & J2 select a 2-bit code that sets a unique address (0-3) on the module stack.

Title		DC Solid State Relay Module	
Project	Wildcard	Designer	David J. Siu
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