

### 3.6.2 G284 Disk Writer

The G284 Disk Writer is used to control the direction of the magnetizing current in order to write data in the NRZI format. In conjunction with the G285 and G286 selection modules, the G284 controls the magnetizing current on the selected disk track. The G284 contains two separate circuits that share a common emitter; each circuit is capable of driving 150 mA. Each circuit is driven by complementary outputs of a flip-flop; therefore, only one circuit of the writer is enabled at any one time.

The steady state magnetizing current flows from +10V through the G286, G285, and G284 to -15. Current transitions flow the same way, but ground return is accomplished by AC coupling on separate wires that are isolated from system ground by 10 ohms.

Standard DEC levels enable the G284 with a wave propagation time of less than 50 ns to full rise time at 150 mA write current. The input load is 1 mA shared among the inputs that are at ground potential.

The power requirements for the G284 are shown below.

Pin	Normal Voltage	Marginal Check Limits		Current (mA)
		Min.	Max.	
A	+10	+ 5	+15	2
B	-15	-10	-20	125

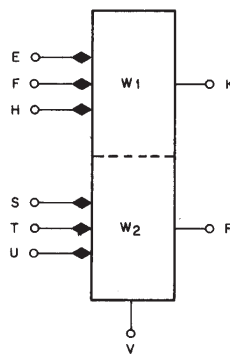


Figure 3-5 Block Diagram, G284 Disk Writer Module

### 3.6.3 G285 Series Selector Switch

The G285 Series Selector Switch is used with the G286 Center Tap Selector for the selection of the addressed read/write head. The G285 contains two identical circuits, each circuit acts as a