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### DC TOUCH CONTROL SWITCH WITH DELAYED OFF

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The LS7539 MODE pin is tied to Vss for OFF-MAXIMUM-OFF operation. When the Touch Plate is touched, negative-going pulses are initiated at LS7539-Pin 8. These pulses trigger 556-Pin 8, initiating a One-Shot positive-going pulse at 556-Pin 9 for  $t = 1.1 \times R2C2$  seconds. When 556-Pin 9 times out, the negative edge initiates a positive going 50ms pulse at the 51KΩ resistor in the base of Q1, turning on Q1. This causes a dis-

turbance at the junction of the 5.1KΩ resistor and 2000pF capacitor which is interpreted as a Touch at LS7539-Pin 4, causing the pulses at LS7539-Pin 8 to terminate. The inversion of the 50ms pulse is fed to 556-Pin 10, keeping 556-Pin 9 reset while the pulses at LS7539-Pin 8 are terminating. The relay coil is turned on for the duration of the positive pulse at 556-Pin 9.

