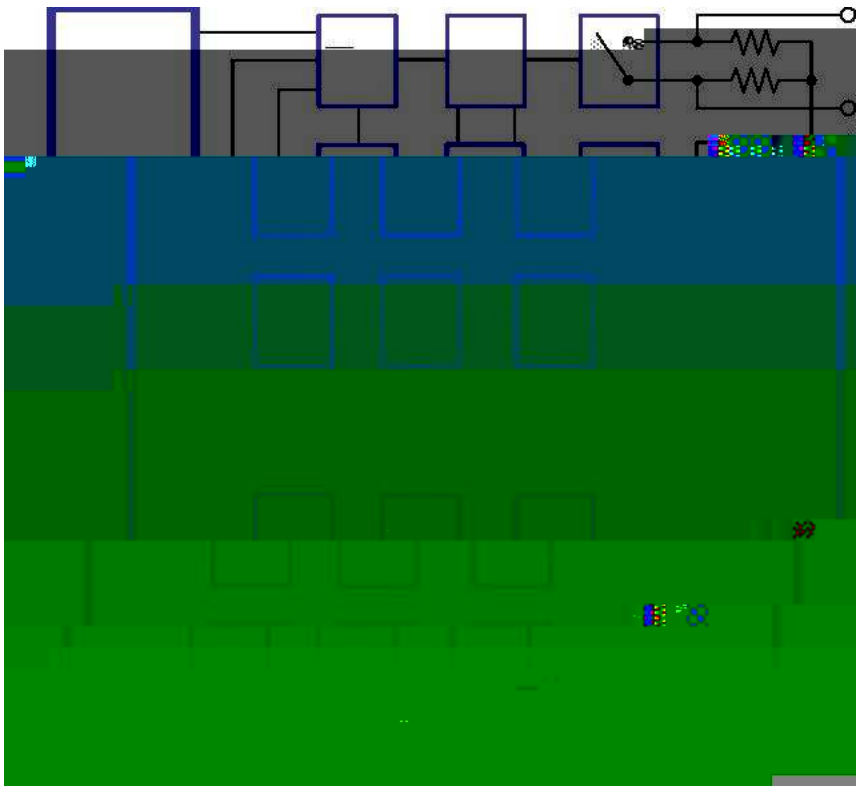


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**Notes:**

1. Power up/down sequence is arbitrary except GND must be powered-up first and powered-down last.
2. $V_{SIG}$ must be within $V_{NN}$ and $V_{PP}$ or floating during power up/down transition.
3. Rise and fall times of power supplies V , $V_{PP}$, and $V_{NN}$ should not be less than 1.!mse".

preliminar

## DC Electrical Characteristics

+o'er re"ommended operatin& "onditions unless otherwise noted,

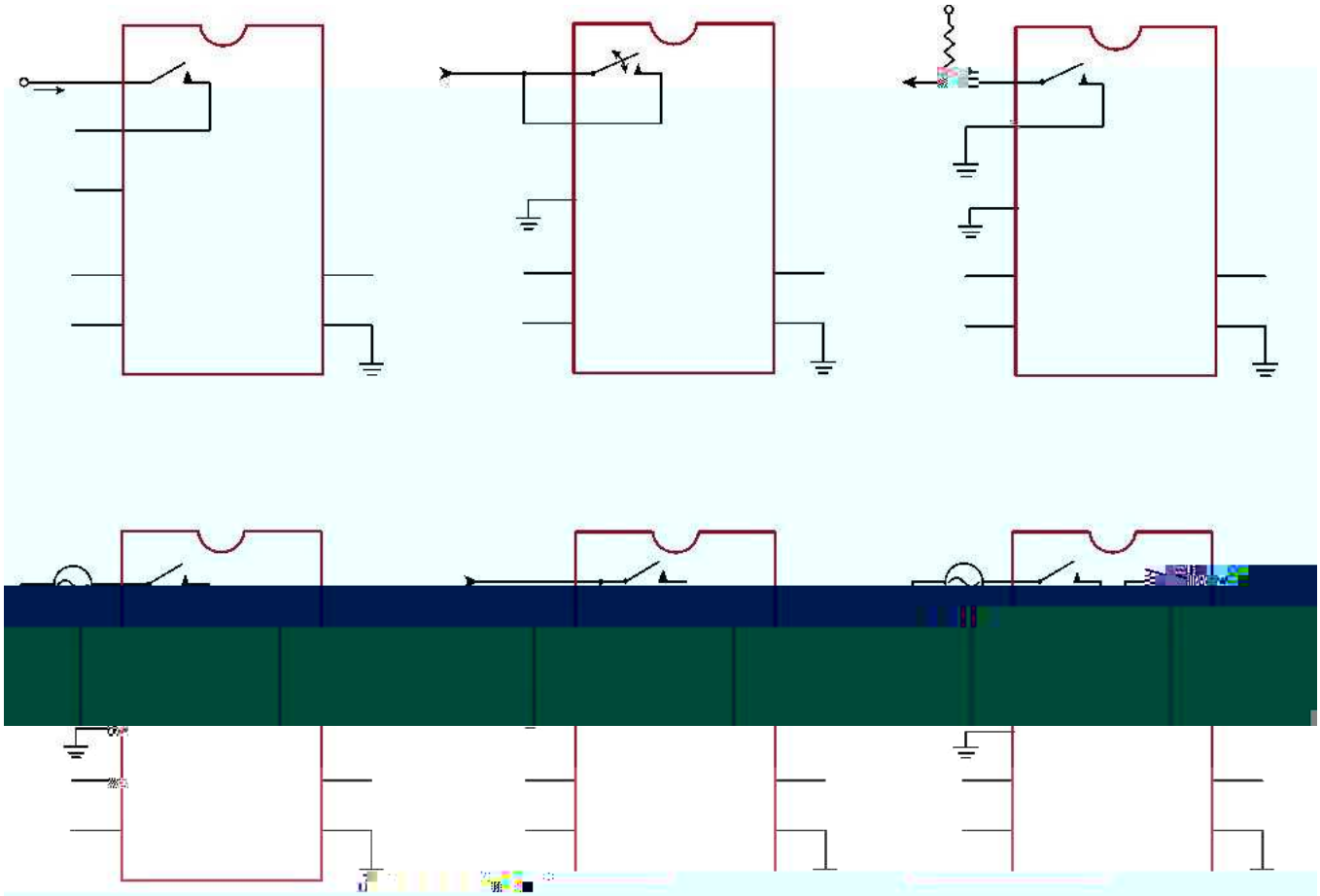
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## )C Electrical Characteristics

+o'er re"ommended operatin& "onditions, V **0 /.!**V, $t_R$ **0** $t_)$ ≤ 5. ns! 5 **"** duty cyc#e! **$**

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[redacted]



## *ogic +unction (a,le

| D0 | D1 | --- | D# | D. | --- | D1" | *E | C*/ | S00 | S01 | --- | S0# | S0. | --- | S01" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

**Notes:**

1. .he 13 swit"hes operate independentl(.
2. Serial data is "lo"4ed in on the **1** to **5** transition of the ***16**.
3.



# Pin Description

## 48-Lead LQFP (FG)

| Pin # | Function | Pin # | Function | Pin # | Function | Pin # | Function |
|---|---|---|---|---|---|---|---|
| 1 | NC | 13 | VNN | 25 | SW15B | 37 | SW10B |
| 2 | NC | 14 | NC | 26 | SW15A | 38 | SW10A |
| 3 | SW4B | [redacted] | [redacted] | 27 | SW14B | 39 | SW9B |
| 4 | SW4A | 16 | NC | 28 | SW14A | 40 | SW9A |
| 5 | SW3B | [redacted] | [redacted] | 29 | SW13B | 41 | SW8B |
| 6 | SW3A | 18 | VDD | 30 | SW13A | 42 | SW8A |
| 7 | SW2B | [redacted] | [redacted] | 31 | SW12B | 43 | SW7B |
| 8 | SW2A | 20 | CLK | 32 | SW12A | 44 | SW7A |
| 9 | SW1B | [redacted] | [redacted] | 33 | SW11B | 45 | SW6B |
| 10 | SW1A | 22 | CLR | 34 | SW11A | 46 | SW6A |
| 11 | SW0B | [redacted] | [redacted] | 35 | NC | 47 | SW5B |
| 12 | SW0A | 24 | RGND | 36 | NC | 48 | SW5A |

premiinary

Pro%uct &arking




2.3*ea% *4+P 5+67
(top view)




YY = Year Sealed
WW = Week Sealed
L = Lot Number