

LM5101C Datasheet P8 Spec table

7.6 Switching Characteristics

Limits in standard type are for $T_J = 25^\circ\text{C}$ only; limits in boldface type apply over the junction temperature (T_J) range of -40°C to $+125^\circ\text{C}$. Minimum and Maximum limits are specified through test, design, or statistical correlation. Typical values represent the most likely parametric norm at $T_J = 25^\circ\text{C}$, and are provided for reference purposes only. Unless otherwise specified, $V_{DD} = V_{HB} = 12\text{ V}$, $V_{SS} = V_{HS} = 0\text{ V}$, No Load on LO or HO ⁽¹⁾.

| PARAMETER | | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|------------|--|--------------------------|-----|-----|-----|------|
| t_{LPHL} | LO turnoff propagation delay LM5100A/B/C | LI Falling to LO Falling | | 20 | 45 | ns |
| | LO turnoff propagation delay LM5101A/B/C | | | 22 | 56 | ns |
| t_{LPLH} | LO turnon propagation delay LM5100A/B/C | LI Rising to LO Rising | | 20 | 45 | ns |
| | LO turnon propagation delay LM5101A/B/C | | | 26 | 56 | ns |
| t_{HPHL} | HO turnoff propagation delay LM5100A/B/C | HI Falling to HO Falling | | 20 | 45 | ns |
| | HO turnoff propagation delay LM5101A/B/C | | | 22 | 56 | ns |
| t_{HPLH} | LO turnon propagation delay LM5100A/B/C | HI Rising to HO Rising | | 20 | 45 | ns |
| | LO turnon propagation delay LM5101A/B/C | | | 26 | 56 | ns |
| t_{MON} | Delay matching: LO on and HO off LM5100A/B/C | | | 1 | 10 | ns |
| | Delay matching: LO on and HO off LM5101A/B/C | | | 4 | 10 | ns |
| | Delay matching: LO off and HO on | | | | | |

• We are currently designing. In determining the performance of the system Please tell me how much this spec is. Since there is no description, I know that I have not tested it. Please let me know if you have the worst value or reference value.

Thank you.