

20/10

Q, Q

Outputs



| SYMBOL | PARAMETER | 54/74 | | UNITS | CONDITIONS |
|--------|----------------------|-------|-----|-------|--|
| | | Min | Max | | |
| lcc | Power Supply Current | | 26 | mA | V _{CC} = Max, V _{CP} = 0 V |

AC CHARACTERISTICS: V_{CC} = +5.0 V, T_A = +25°C (See Section 3 for waveforms and load configurations)

| SYMBOL | DESCRIPTION | 54/74 C _L = 15 pF R _L = 400 Ω | | UNITS | CONDITIONS |
|--------------|---|---|-------------------------|-------|-----------------|
| | | | | | |
| | | f _{max} | Maximum Clock Frequency | 20 | |
| tPLH tPHL | Propagation Delay CP to Q or Q | | 50 50 | ns | Figs. 3-1, 3-8 |
| tpLн tpнL | Propagation Delay Sp or Cp to Q or Q | | 50 50 | ns | Figs. 3-1, 3-10 |

AC OPERATING REQUIREMENTS: $V_{CC} = +5.0 \text{ V}, \text{ T}_{A} = +25^{\circ}\text{ C}$

| SYMBOL | PARAMETER | 54/74 | | UNITS | CONDITIONS |
|--|--|----------|-----|-------|------------|
| | | Min | Мах | | |
| ts (H) | Setup Time HIGH, Jn or Kn to CP | 20 | | ns | Fig. 3-6 |
| t _h (H) | Hold Time HIGH, J_n or K_n to CP | 5.0 | - | ns | Fig. 3-6 |
| ts (L) | Setup Time LOW, J_n or K_n to CP | 20 | | ns | Fig. 3-6 |
| t _h (L) | Hold Time LOW, J_n or K_n to CP | 5.0 | | ns | Fig. 3-6 |
| t _w (H) t _w (L) | CP Pulse Width | 20 30 | | ns | Fig. 3-8 |
| t _w (L) | \overline{S}_{D} or \overline{C}_{D} Pulse Width LOW | 25 | | ns | Fig. 3-10 |
| | | | | | |