MC74F269

FUNCTION TABLE

| | | | Outputs | | | | | |
|--------------------|----------|--------|---------|--------|--------|--------|----------------------|------------|
| Operating Mode | СР | U/D | CEP | CET | PE | Pn | Qn | TC |
| Parallel Load | † | X X | X X | X X | | l h | L H | (a) (a) |
| Count Up | 1 | h | ı | ı | h | х | Count Up | (a) |
| Count Down | 1 | ı | ı | ı | h | х | Count Down | (a) |
| Hold Do Nothing | † | X X | h X | X h | h h | X X | q _n qn | (a) H |

H = HIGH voltage level steady state

DC CHARACTERISTICS OVER OPERATING TEMPERATURE RANGE (Unless otherwise specified)

| | ol Parameter | | Limits | | | | | |
|------------------------------------|---------------------------------------|------|--------|------|------|-----------------------|--|--------------------------|
| Symbol | | | Min | Тур | Max | Unit | Test Conditions | |
| V _{OH} Output HIGH | Output HIGH Voltage | 74 | 2.5 | | | v | I _{OH} = -1.0 mA | V _{CC} = 4.5 V |
| | Output HIGH Voltage | | 2.7 | 3.4 | } | | | V _{CC} = 4.75 V |
| V _{OL} | Output LOW Voltage | 74 | | 0.35 | 0.5 | ٧ | I _{OL} = 20 mA, V _{CC} = 4.5 V | |
| VIK | Input Clamp Diode Voltage | | | | -1.2 | ٧ | V _{CC} = MIN, I _{IN} = -18 mA | |
| I _{IH} Input HIGH Current | | | | 100 | μА | V. MAY | V _{IN} = 7.0 V | |
| | | | | 20 | | V _{CC} = MAX | V _{IN} = 2.7 V | |
| IIL | Input LOW Current | | | | -0.6 | mA | V _{CC} = MAX, V _{IN} = 0.5 V | |
| los | Output Short Circuit Current (Note 2) | | -60 | | -150 | mA | V _{CC} = MAX, V _{OUT} = 0 V | |
| lcc - | Total Supply Current (total) | Іссн | | 93 | 120 | | V MAY | (Note 3) |
| | | ICCL | | 98 | 125 | mA | V _{CC} = MAX | (Note 4) |

NOTES:

h = HIGH voltage level one set-up time prior to the LOW-to-HIGH clock transition L = LOW voltage level steady state

I = LOW voltage level one set-up time prior to the LOW-to-HIGH clock transition

X = Don't care

q = Lower case letters indicate the state of the referenced output prior to the LOW-to-HIGH clock transition \uparrow = LOW-to-HIGH clock transition

⁽a) = The TC is LOW when CET is LOW and the counter is at Terminal Count. Terminal Count Up is with all Qn outputs HIGH and Terminal Count Down is with all Qn outputs LOW.

^{1.} For conditions shown as MIN or MAX, use the appropriate value specified under guaranteed operating conditions for the applicable device type.

^{2.} Not more than one output should be shorted at a time, nor for more than 1 second. 3. $\overline{PE} = \overline{CEP} = \overline{CEP} = U/\overline{D} = GND$: $P_n = 4.5$ V: $CP = \uparrow$ 4. $\overline{PE} = \overline{CEP} = \overline{CEP} = U/\overline{D} = GND$: $CP = \uparrow$

LOGIC DIAGRAM

