### Quad Latch

The MC10153 is a high speed, low power, MECL quad latch consisting of four bistable latch circuits with D type inputs and gated Q outputs. Open emitters allow a large number of outputs to be wire-O Red together. Latch outputs are gated, allowing direct wiring to a bus. When the clock is low, outputs will follow D inputs. Information is latched on positive going transition of the clock. The MC10153 provides the same logic function as the MC10133, except for inversion of the clock.

**TRUTH TABLE**

| $\overline{G}$ | C | D | $Q_{n+1}$ |
|---|---|---|---|
| H | $\phi$ | $\phi$ | L |
| L | H | $\phi$ | $Q_n$ |
| L | L | L | L |
| L | L | H | H |

$\phi$ = Don't Care
$C = C_C + \overline{CE}$

$V_{CC1}$ = Pin 1
$V_{CC2}$ = Pin 16
$V_{EE}$ = Pin 8

$P_D$ = 310 mW typ/pkg (No Load)
$t_{pd}$ = 4.0 ns typ