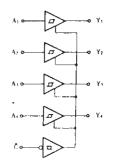
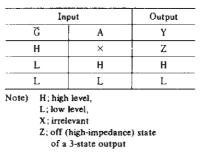
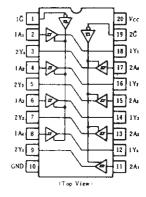
BLOCK DIAGRAM(1/2)



EFUNCTION TABLE

PIN ARRANGEMENT





ELECTRICAL CHARACTERISTICS ($Ta = -20 \sim +75^{\circ}C$)

| | ltem | Symbol | Test Con | nditions | | min | typ * | max | Unit |
|---------------------|----------------------|-----------------|---|---|-------------------|-----|-------|-------|------|
| I | | VIH |] | | | 2.0 | | | v |
| Input volta | age | VIL | | | | | | 0.8 | v |
| Hysteresis | | $V_T^+ - V_T^-$ | $V_{CC} = 4.75 \mathrm{V}$ | | | 0.2 | 0.4 | | V |
| Output voltage | | Vон | $V_{CC} = 4.75 V, V_{IH} = 2 V$ | Vit = 0.8V, Ion = - 3mA | | 2.4 | | | v |
| | | | | $V_{IL} = 0.5 V$, $I_{OH} = -15 \text{mA}$ | | 2.0 | | | |
| | | Vol | | | <i>lot</i> = 12mA | — | | 0.4 | v |
| | | | | | <i>loL</i> = 24mA | - | | 0.5 | |
| Output current | | Іогн | $V_{CC} = 5.25 \text{V}, V_{IH} = 2 \text{V}.$ | | $V_0 = 2.7 V$ | - | | 20 | μA |
| | | lozi | $V_{IL} = 0.8V$ | | <i>Vo</i> =0.4V | | _ | - 20 | |
| Input current | | Тін | $V_{\rm CC} = 5.25 {\rm V}, V_I = 2.7 {\rm V}$ | | | | 20 | μA | |
| | | hı. | $V_{CC} = 5.25 \text{V}, V_l = 0.4 \text{V}$ | | | | | -0.2 | mA |
| | | h | $V_{cc} = 5.25 \text{V}, V_l = 7 \text{V}$ | | | | 0.1 | mA | |
| Short-cire | uit output current | los | $V_{CC} = 5.25 V$ | | | 40 | • • | - 225 | mA |
| C | Output "H" | Icc | | | | - | 13 | 23 | |
| Supply | Output "L | | $V_{\rm CC} = 5.25 V$ | | | 27 | 46 | mA | |
| current | All outputs disabled |]] | | | | 32 | 54 | | |
| Input clamp voltage | | Vik | $V_{CC} = 4.75 V, I_{IN} = -18 m A$ | | | | -1.5 | V | |

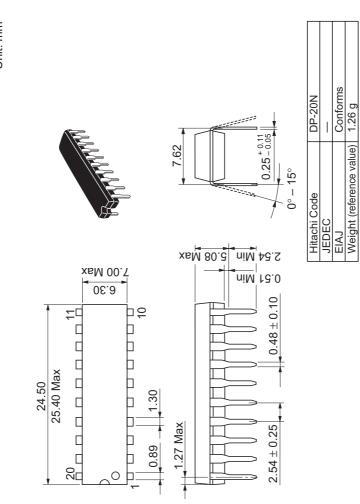
• V_{CC}=5V, Ta=25°C

** I_{CC} is measured with all outputs open.

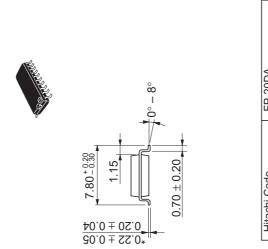
ESWITCHING CHARACTERISTICS ($V_{CC} = 5V$, $T_a = 25^{\circ}C$)

| Item | Symbol | Test Conditions | min | typ | max | Unit |
|------------------------|--------------------|--|-----|-----|-----|------|
| | tp_LH | 100 H 10 10 10 H 10 H 17 H 17 H 17 H | | 12 | 18 | |
| Propagation delay time | t PHL | $C_L = \mathbf{45pF}, R_L = 667 \ \Omega$ | - | 12 | 18 | ns |
| A | tzL | | | 20 | 30 | πs |
| Output enable time | t ZH | | | 15 | 23 | ns |
| ~ | tLZ | | | 15 | 25 | лз |
| Output disable time | utput disable time | $C_L = 5 \mathrm{pF}, R_L = 667 \Omega$ | | 10 | 18 | ns |

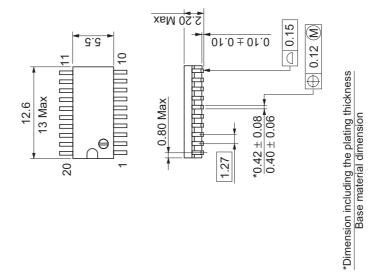
Note) Refer to Test Circuit and Waveform of the Common Item



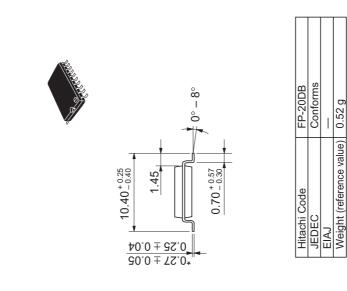
Unit: mm

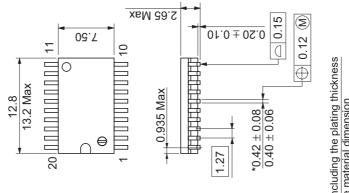


| Hitachi Coda | |
|--------------------------|----------|
| | |
| JEDEC | - |
| EIAJ | Conforms |
| Weight (reference value) | 0.31 g |



Unit: mm





*Dimension including the plating thickness Base material dimension

Unit: mm

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