

 $Q_{1}^{*} = ID = \overline{Q}_{1}$ $Q_{2}^{*} = 2P = Q_{2} \oplus Q_{1} \oplus A$ $Y = \overline{AQ_{1}Q_{2} \cdot A\overline{Q}_{1}\overline{Q}_{2}}$ $= \overline{AQ_{1}Q_{2} + A\overline{Q}_{1}\overline{Q}_{2}}$

功能:产生脉冲倍号, 1000/11日, 10日 000/1日,产生脉冲,

2.
$$G_1^{\sharp} = J_1 \overline{Q}_1 + \overline{K}_1 Q_1$$
 $Q_2^{\sharp} = J_2 \overline{Q}_2 + \overline{K}_2 Q_2$
 $Q_3^{\sharp} = J_2 \overline{Q}_3 + \overline{K}_2 Q_3$
 $G_2 G_1 = 0000$ BH: $J_1 = K_2 = Q_1 = Q \Rightarrow Q_2^{\sharp} = Q_1 = Q \Rightarrow Q_3^{\sharp} = Q \Rightarrow Q_4^{\sharp} = Q$
 $Q_3 Q_1 Q_1 = 000$ BH: $J_1 = K_2 = Q_1 = Q_1 \Rightarrow Q_2^{\sharp} = \overline{Q}_2 = Q_2 \Rightarrow Q_2^{\sharp} = \overline{Q}_3 = Q_2^{\sharp} = Q_3^{\sharp} =$

