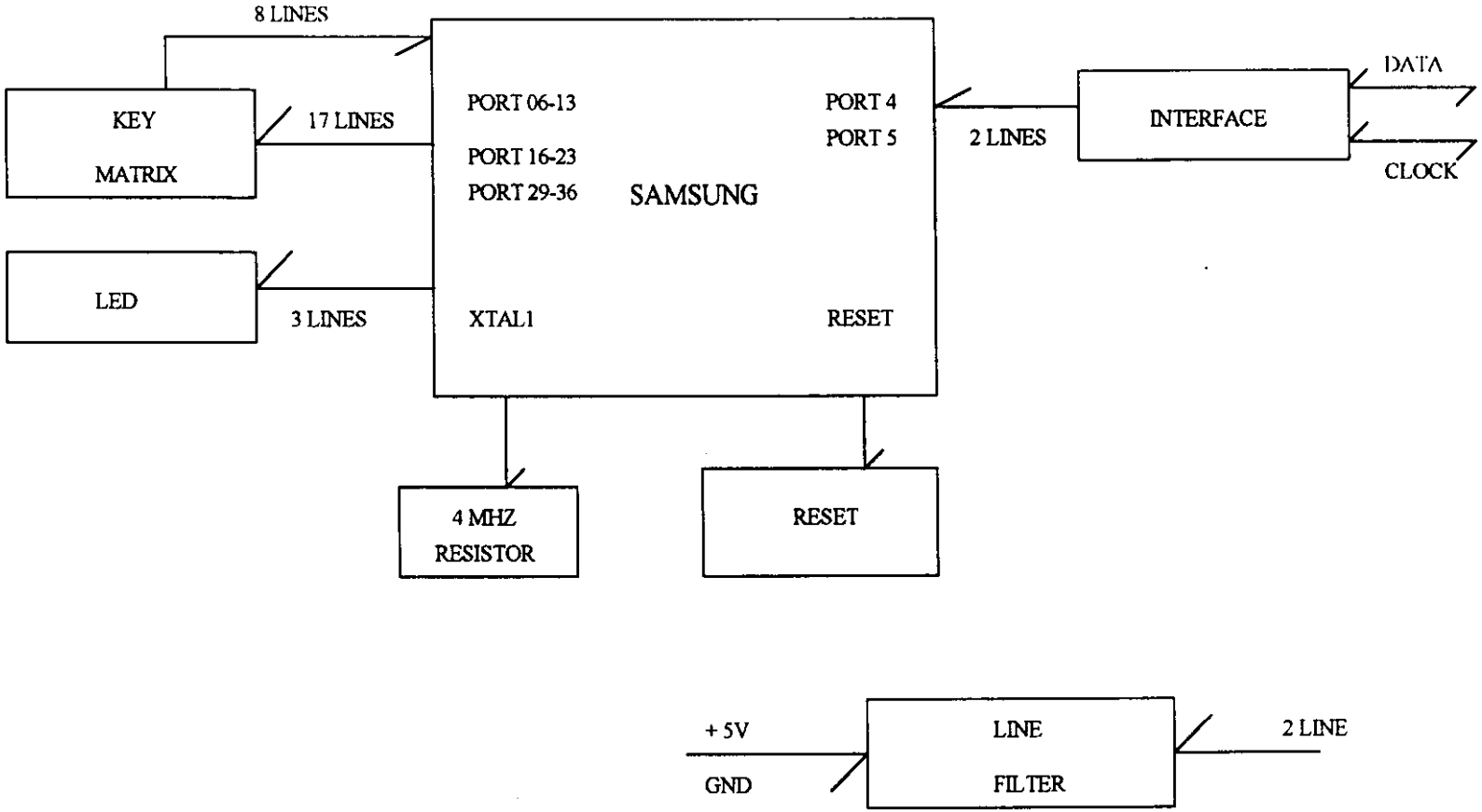
Appendix A

Circuit (Block) Diagram

KEYBOARD BLOCK DIAGRAM



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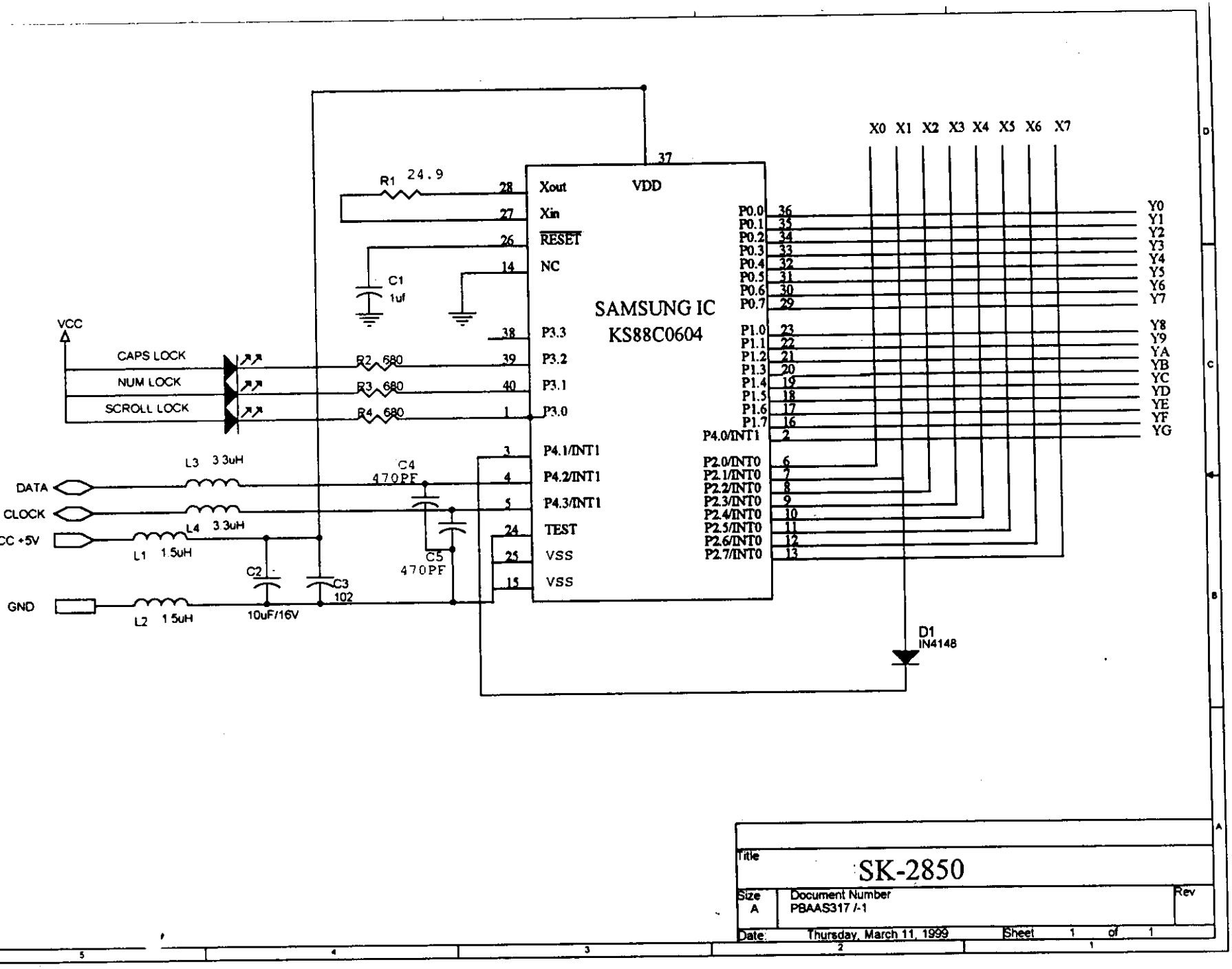
SAMSUNG IC
KS88C0604
VDD
37
Xout
Xin
RESET
NC
P3.3
P3.2
P3.1
P3.0
P4.1/INT1
P4.2/INT1
P4.3/INT1
TEST
VSS
VSS
P0.0
P0.1
P0.2
P0.3
P0.4
P0.5
P0.6
P0.7
P1.0
P1.1
P1.2
P1.3
P1.4
P1.5
P1.6
P1.7
P4.0/INT1
P2.0/INT0
P2.1/INT0
P2.2/INT0
P2.3/INT0
P2.4/INT0
P2.5/INT0
P2.6/INT0
P2.7/INT0
X0 X1 X2 X3 X4 X5 X6 X7
Y0 Y1 Y2 Y3 Y4 Y5 Y6 Y7
Y8 Y9 YA YB YC YD YE YF YG
R1 24.9
C1 1uf
VCC
CAPS LOCK
NUM LOCK
SCROLL LOCK
R2 680
R3 680
R4 680
DATA
CLOCK
CC +5V
GND
L3 3.3uH
L4 3.3uH
L1 1.5uH
L2 1.5uH
C2 10uF/16V
C3 102
C4 470PF
C5 470PF
D1 IN4148
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SK-2850
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