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D01 CTRL2+ L1 LED
V1sen L1 CTRL2- 0
F01 N1 G1 V1sen 0.03
D010 G1 01 PHOTO
D02 01 02 PHOTO
D03 02 03 PHOTO
D04 03 04 PHOTO
D05 04 05 PHOTO
D06 05 06 PHOTO
D07 06 07 PHOTO
D08 07 08 PHOTO
D09 08 09 PHOTO
D0101 09 010 PHOTO
D031 010 011 PHOTO
D041 011 012 PHOTO
D051 012 013 PHOTO
D061 013 014 PHOTO
D071 014 015 PHOTO
D081 015 016 PHOTO
D091 016 017 PHOTO
D01111 017 018 PHOTO
D01121 018 019 PHOTO
D01211 019 N1 PHOTO
D011 N1 LD3 DPRB
D012 N1 LD4 DPRB
C1gate G1 N1 100n
W_W01 G1 N1 V1sen W1
S_S01 LD3 N1 G1 N1 S2
S_S02 LD4 N1 G1 N1 S2
.MODEL W1 ISWITCH (Roff=12 Ron=100meg IT=1u Td=1n)
.MODEL S1 VSWITCH (Roff=100meg Ron=12.5 VT=1m Td=200u)
.MODEL S2 VSWITCH (Roff=100meg Ron=12.5 VT=1m Td=200u)
.MODEL BS170 NMOS ( CBD=44.0908P CGDO=400N CGSO=400N GAMMA=0 GDSNOI=0 L=10u W=10m
+RS=7 IS=10F RDS=1000MEG RDS=100MEG )
.MODEL LED D (IS=0.0000005203f N=1.1204049 RS=1.35 BV=6 IBV=10U
+ CJO=50P EG=1.7 TT=500N)
.MODEL PHOTO  D(Is=2.682n N=1.836 Rs=.5664 Ikf=44.17m Xti=3 Eg=1.11 Cjo=4p
+M=.3333 Vj=.5 Fc=.5 Isr=1.565n Nr=2 Bv=6 Ibv=100u Tt=11.54n)
.MODEL DPRB  D(Bv=210 TBV1=0.0005)
.MODEL NPN1 NPN (IS=2.82F XTI=3 EG=1.11 VAF=3.32K BF=100 NE=2.35
+   ISE=554.1P IKF=18.04M XTB=1.5  BR=.6455  NC=2  ISC=0 IKR=0 RC=0
+   CJC=17P  VJC=.75  MJC=.333  FC=.5  CJE=8.55P  VJE=.75  MJE=.333
+   TR=3.36U TF=1.02N ITF=0 VTF=0 XTF=0)
.MODEL PNP1 PNP (IS=2.82F XTI=3 EG=1.11 VAF=3.32K BF=100 NE=2.35
+   ISE=554.1P IKF=18.04M XTB=1.5  BR=.6455  NC=2  ISC=0 IKR=0 RC=0
+   CJC=17P  VJC=.75  MJC=.333  FC=.5  CJE=8.55P  VJE=.75  MJE=.333
+   TR=3.36U TF=1.02N ITF=0 VTF=0 XTF=0)
.ENDS
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