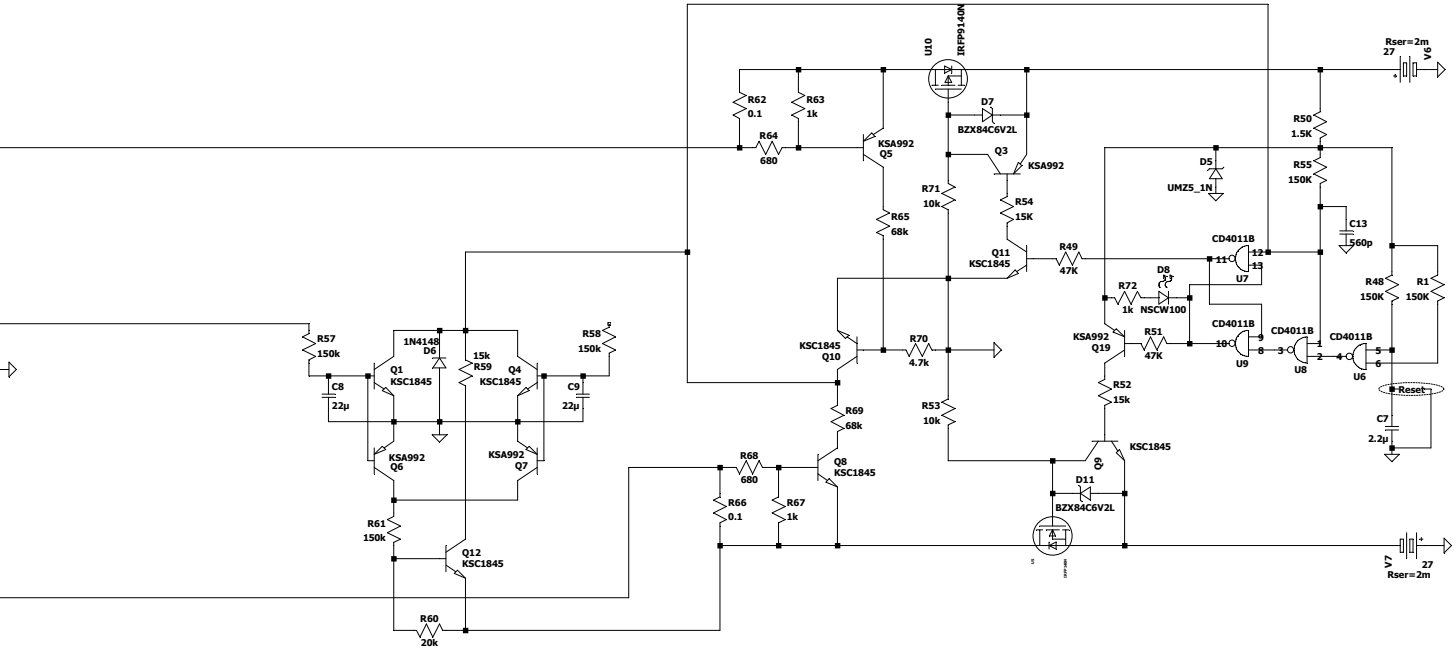



```
**************************************
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**************************************
.MODEL Qmj15015 npn
+IS=7.33398e-11 BF=254.747 NF=1.29258 VAF
+IKF=2.09778 ISE=9.23319e-12 NE=3.28587 B
+NR=1.5 VAR=1.9167 IKR=5.96947 ISC=4e-13
+NC=3.9375 RB=6.08704 IRB=0.120003 RBM=
+RE=0.000683335 RC=0.180016 XTB=0.1 XTI=
+EG=1.09857 CJE=5.85792e-10 VJE=0.4 MJE=
+TF=8.41162e-09 XTF=26.0198 VTF=24078.1 I
+CJC=2.52568e-10 VJC=0.95 MJC=0.396402 XC
+FC=0.8 CJS=0 VJS=0.75 MJS=0.5
+TR=6.83123e-07 PTF=0 KF=0 AF=1
* Model generated on Jan 14, 2004
* Model format: PSpice
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