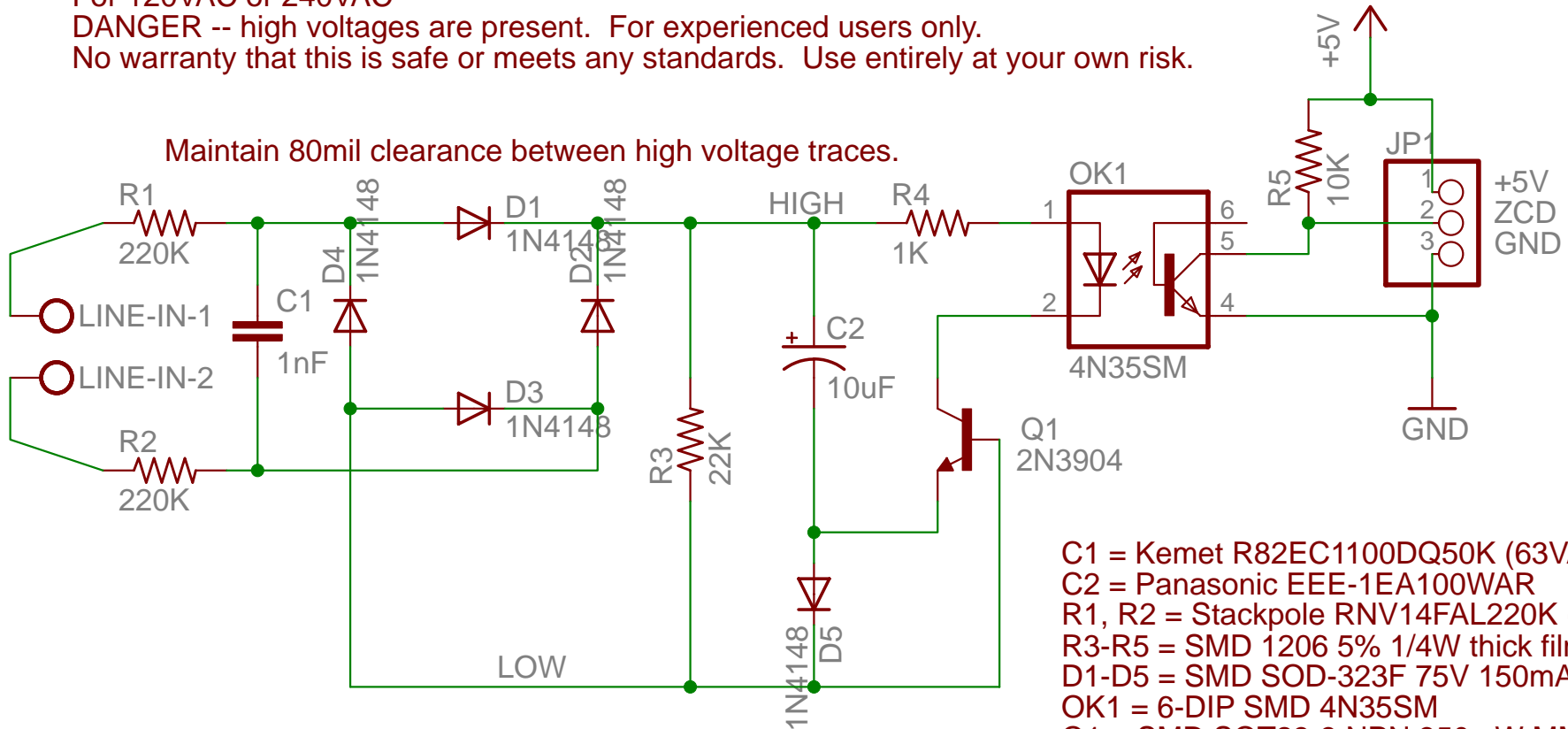


Zero cross detector

For 120VAC or 240VAC

DANGER -- high voltages are present. For experienced users only.

No warranty that this is safe or meets any standards. Use entirely at your own risk.



C1 = Kemet R82EC1100DQ50K (63VAC)
C2 = Panasonic EEE-1EA100WAR
R1, R2 = Stackpole RNV14FAL220K (1150V RMS)
R3-R5 = SMD 1206 5% 1/4W thick film
D1-D5 = SMD SOD-323F 75V 150mA
OK1 = 6-DIP SMD 4N35SM
Q1 = SMD SOT23-3 NPN 350mW MMBT3904

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Inspired by www.dextrel.net/diycrosser.htm