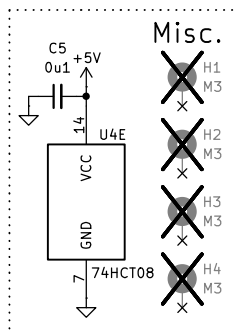
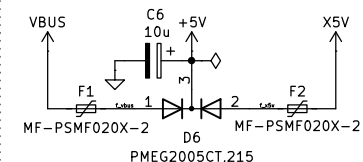
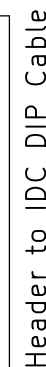


# 32K ROM Emulator for 28C256 EEPROM

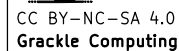


The LED driver section of the PCB is shown in the diagram. It includes five LEDs: D7 (LED\_RED), D8 (LED\_AMB), D9 (LED\_RED), D10 (LED\_AMB), and D11 (LED\_AMB). The circuit is powered by +5V and +3V3. D7 and D9 are connected to +5V through resistors R5 (620R) and R6 (270R) respectively. D8, D10, and D11 are connected to +3V3 through resistors R1 (270R), R3 (620R), and R2 (620R) respectively. The RSTbuf signal is connected to D11 and the RST pin of the microcontroller.



Notes:

- 74HCT series logic used to allow 3.3v -> 5v logic without discrete level shifting circuitry.
- $\overline{\text{xRST}}$  signal is open-drain, Q1 prevents sinking DUT reset signal current with MCU.
- Remove F2 if current draw exceeds DUT supply capability.



Sheet: /  
File: pico-rom-em

Title: RPi Pico 2 32k x 8 ROM Emulator

Size: A4	Date: 2025-05-06
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KiCad E.D.A. 9.0.1

Additional Components:  
IDC Cable socket: 3M 3419-6630, strain relief 3448-3030,  
pull tab 3490-3, hardware 3341-6

Rev: 1
Id: 1/1