

Experimental Zener Diode Tester - Bill of Materials

Reference	Value	Description
U1	MC34063AP	1.5-A Boost/Buck/Inverting Switching Regulator
U2	PIC16F88-IP	PIC16F Series, 7 kB Flash, 20 MHz 8-Bit Microcontroller
U3	RC1602A	16x2 character LCD module
Q1	IRF9540	P-channel 100V enhancement mode MOSFET
Q2	IRF540	N-channel 100V enhancement mode MOSFET
Q3	IRF9540	P-channel 100V enhancement mode MOSFET
Q4	IRF540	N-channel 100V enhancement mode MOSFET
Q6	2N4401	General Purpose NPN Silicon Transistor
Q7	2N4401	General Purpose NPN Silicon Transistor
R1	220 Ω	
R2	2.7K Ω	
R3	56K Ω	
R4	1 Ω	
R5	1 Ω	
R6	1K Ω	1W Carbon Film Resistor
R7	3.3M Ω	
R8	3.3M Ω	
R9	22K Ω	
R10	2.2K Ω	
R11	10K Ω	
R12	10K Ω	
R13	2.2K Ω	
R14	10K Ω	
R15	22K Ω	
R16	10K Ω	
R17	82K Ω	
R18	15K Ω	
R19	82K Ω	
R20	15K Ω	
R21	22K Ω	
R22	22K Ω	
R23	470 Ω	
C1	0.001 μ F / 25V	Ceramic Capacitor
C2	100 μ F / 16V	

C3	0.1 μ F / 50V	Mylar Capacitor
C4	0.033 μ F / 100V	Mylar Capacitor
C5	220 μ F / 50V	
C6	0.1 μ F / 25V	Ceramic Capacitor
C7	0.1 μ F / 25V	Ceramic Capacitor
C8	0.1 μ F / 50V	Mylar Capacitor
C9	0.1 μ F / 50V	Mylar Capacitor
RV1	10K Ω	Horizontal Preset Trimmer Potentiometer
RV2	20K Ω	Horizontal Preset Trimmer Potentiometer
L1	220 μ H	1A Radial Inductor
D1	1N5819	
SW1	6mm Tactile Switch	