

Breadboard OVP
Bill of Materials

Qty	Part ID	Part Description
1	D1	5V Zener diode
1	D2	12V TVS diode
1	D4	TL431 voltage reference
1	D5	LED
1	Q1	AO3410 N-channel MOSFET
1	Q2	2N3906 PNP Transistor
1	R1	470 Ohm Resistor
1	R2	4.7K Resistor
1	R3	2.2K Resistor
2	R4,R7	1K Resistor
1	R5	10K Resistor
1	R6	2.67K Resistor
2	J1,J2	2 pin header, straight
2	J1,J2	2 pin header, right angle
1	JP1	3 pin header, right angle
1	JP	2 pin header jumper
1	PCB	PCB J704