POWER SUPPLY CIRCUITS (continued)

Supervisory Circuits (continued)

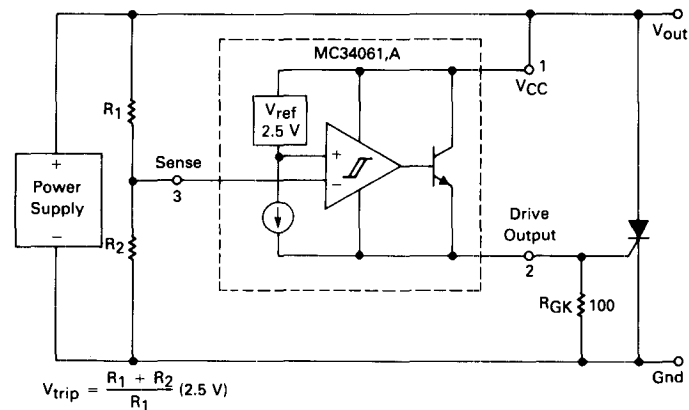### Over-Voltage Protection Circuits

MC34061P,AP, (T_A = 0 to +70°C)

Packages: P Suffix, Case 29 (Plastic)

The MC34061,A, overvoltage protection (OVP) circuit, in combination with two external programming resistors and a "Crowbar" SCR protects sensitive electronic circuitry from overvoltage damage. It senses an overvoltage condition and quickly "Crowbars," or short circuits, the supply. An external capacitor may be used to program a minimum overvoltage duration before tripping, thus providing noise immunity.

This three-terminal circuit provides a cost-effective means of protecting either positive or negative power supplies. The unique design of the MC34061,A, eliminates trip voltage and temperature drift errors due to SCR gate variations.

$$V_{trip} = \frac{R_1 + R_2}{R_1} (2.5 \text{ V})$$

MC34062P1,U (T_A = 0 to +70°C)

Packages: P1 Suffix, Case 626 (Plastic)
          U Suffix, Case 693 (Ceramic)

The MC34062 overvoltage protection (OVP) circuits requires only an external "Crowbar" SCR to protect sensitive electronic circuitry from overvoltage damage. It senses an overvoltage condition and quickly "Crowbars," or short circuits the supply.