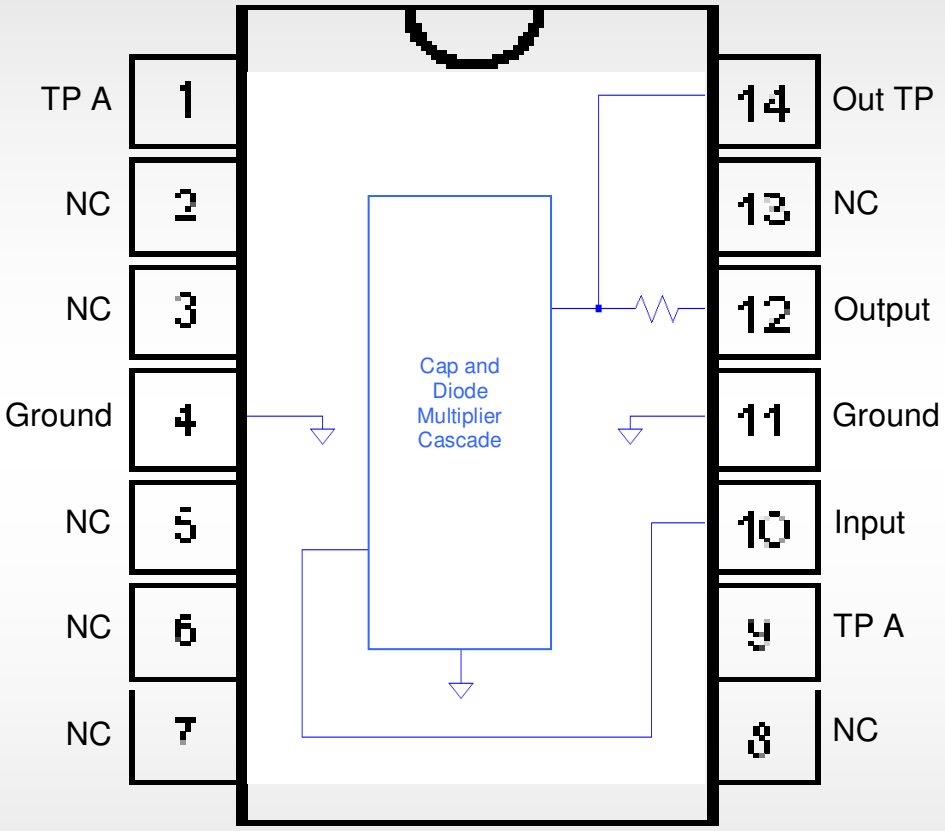
Radiation tolerant, latchup-free

K23

Voltage multiplier, Capacitor/Diode Cascade, Vinx4 (theoretical), up to 30V output



The K23 is a self-contained capacitor/diode charge pump array. When the input is driven by a sine wave or square wave input of V magnitude, the output will be a DC level which can be nearly as high as Vx4. The output is of moderately high impedance, so the K23 is best suited for applications where a high voltage DC supply is needed but very little current is required. It can be used for biasing Avalanche Photodiodes, providing a varactor bias supply, generating microphone phantom power, and driving GaN switches and attenuators.

Connect like-labeled pairs of pins together (TPA to TPA and Ground to Ground). Make no connection to all NC pins, since many are used internally as tie points. Out TP does not have current limiting, so for most applications it is better to use Output, which contains an internal 2k resistor to assist in output RC filtering. Connect a large capacitor from Output to ground for best DC smoothing.