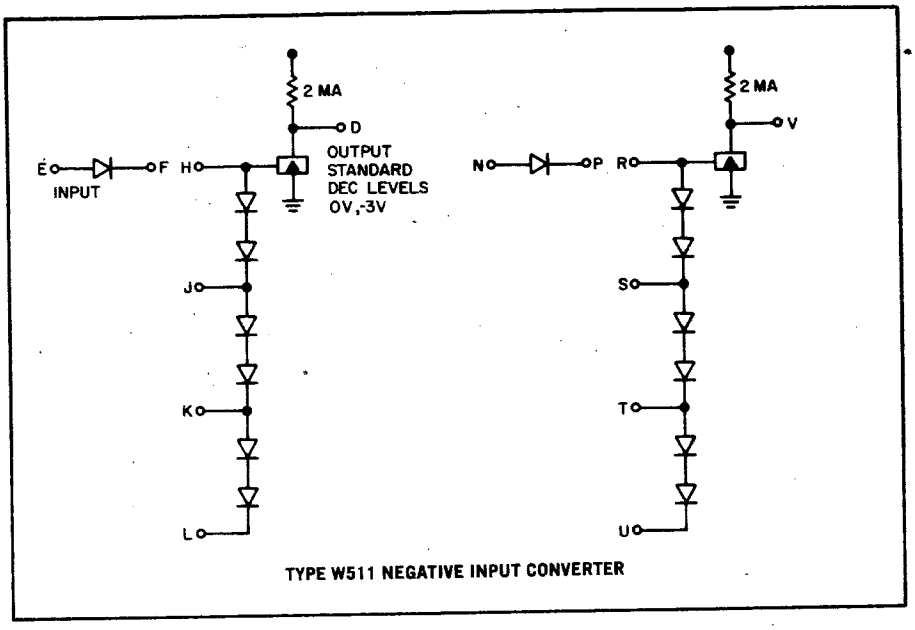
NEGATIVE INPUT CONVERTER
TYPE W511

W SERIES



TYPE W511 NEGATIVE INPUT CONVERTER

The Type W511 Negative Level Converter contains two circuits that convert negative levels to DEC standard levels of ground and −3v. Each circuit consists of a grounded emitter inverter with a string of bias diodes between its base and the input pins. A separate input diode is also provided. By connecting the input diode to various points on the diode string, the switching threshold can be set at 0v, −1v, −2v, or −3v (see the table below). When the input is more positive than the switching threshold by 1v, the inverter is cut off and the output is at −3v. When the input is more negative than the switching threshold by 1v, the inverter is saturated and the output is at ground.

Threshold	Connections	Output = −3v	Output = 0v
0v	F & H, P & R	Input ≧ +1.0v	Input ≦ −1.0v
−1v	F & J, P & S	Input ≧ 0.0v	Input ≦ −2.0v
−2v	F & K, P & T	Input ≧ −1.0v	Input ≦ −3.0v
−3v	F & L, P & U	Input ≧ −2.0v	Input ≦ −4.0v

In connecting input diodes to the bias string, use short, direct wire. Under no conditions should anything but the input diode be connected to a bias string pin. Inputs must be connected only to pins E and N.

INPUTS: Voltage levels must not exceed +25v or go below −50v. Input current required is approximately 1 ma when the input is slightly more positive than the threshold, rising to a maximum of 4 ma when the input is at +25v. Input leakage is 100 μa or less when the input is more negative than the threshold.

OUTPUTS: The output is an inverter with a 2 ma clamped load. It can drive 18 ma at ground.

POWER: +10v(A)/3 ma; −15v(B)/24 ma.

W511 — $17.00