

LM385 Feedback Provides Regulator Isolation



pins 5 to 6 nullifies the effect of the wide gain variance. Moreover, the damper provides excellent loop stability for a wide range of 4N27 optocouplers from several manufacturers. In the example shown, the LM385 provides 0.5 mA to 5 mA to the optocoupler.

If the 5V output available from this circuit does not meet your needs, choose $R_2 = R_1 (V_{OUT} - 1.25)/1.25$. If V_{OUT} is greater than 6V, insert a zener diode between points X and Y, with $V_Z = V_{OUT} - 5V$; this addition prevents the voltage across the LM385 from exceeding its 5.3V max limit. The circuit is suitable for regulated output voltages from 3.2V to 25V.



D_1 = optional (see text).

AN-715

Notes

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