

## Fold-back current limiter

This design has been found useful when supplying series regulated circuits from a wide range of input voltages. By choosing suitable values for the current limiting components, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>1</sub>. fold-back current limiting characteristics can be achieved that will protect the series regulating transistor from over dissipation when  $V_i$ - $V_0$  is high, and allow higher values of load current to flow when  $V_i$  -  $V_o$  is low. Current limiting takes place when Tr<sub>1</sub> conducts. With the values shown and the  $V_{be}$  of Tr<sub>1</sub> assumed to be 0.65 volts, the current limiting characteristics will be similar to those in the graph.

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