

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, R₁, R₂, R₃ and R₁, fold-back current limiting characteristics can be achieved that will protect the series regulating transistor from over dissipation when V_i - V_o is high, and allow higher values of load current to flow when V_i - V_o is low. Current limiting takes place when Tr₁ conducts. With the values shown and the V_{be} of Tr₁ assumed to be 0.65 volts, the current limiting characteristics will be similar to those in the graph.

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