

## Ripple eliminator

This shunt regulator circuit virtually removes all mains ripple without using a large capacitor, and is inherently short-circuit proof. The regulator is ideal as a stabilized supply line for audio preamplifiers and other applications where a precise voltage level is not important but freedom from ripple is. The circuit's simplicity is due to silicon transistors which can operate at very

low levels of collector-emitter voltage. The zener diode should be operated with enough current to make its dynamic resistance significantly less than  $R_1$ . Transistor  $Tr_3$  may be a power type or a Darlington. The Miller capacitor should be large enough to stop high frequency oscillations.

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