

This Sheet Has Been Replaced



IR-1182

**MOS GATE DRIVER CIRCUIT WITH
ANALOG INPUT AND VARIABLE DEAD TIME BAND**

ABSTRACT OF THE DISCLOSURE

A MOS gate drive (MGD) integrated circuit drives a pair of MOS gated power semiconductor devices such as are used in a half bridge circuit to drive a load in a resonant power supply circuit or to drive a gas discharge lamp in a ballast circuit. The gate drive circuit includes dead time circuitry which prevents simultaneous conduction in both MOS gated devices. The duration of the dead time is controlled in response to a feedback signal that is sensed from the output supplied to the load or the lamp. A dimming function is attained by controlling the voltage of the feedback signal.