IGD962 Hybrid Integrated IGBT Driver

MicroPower Direct, the IGD962 is a hybrid integrated circuit specifically designed to drive N-channel IGBT modules. It provides the I/O isolation, high speed, drive voltage stability and fault protection required to control most MOS gated power devices.

The IGD962 converts TTL compatible input signals into a fully isolated +15V/-8V Gate drive with a peak drive current of 5A. An internal, high speed optocoupler provides 3,750 VAC control signal isolation, with a CMR ratio of 30 kV/µS for precise switching at high speed. A built-in desaturation detector provides short circuit protection. A fault signal is provided if the detector is activated. The IGD962 utilizes a two supply drive topology. The IG120 series DC/DC converters (also available from MPD) are designed
specifically to operate with the IGD962.

The IGD962 is packaged in a compact single-in-line (SIP) package to minimize board space. The
pin out is compatible with M57962AL devices. It is specified for use over the wide operating
temperature range of -20°C to +70°C.

The IGD962 is recommended for use with:

- 600V Series IGBT (up to 600A)
- 1200V Series IGBT (up to 400A)
- 1700V Series IGBT (up to 200A)

Typical applications would include high frequency welding systems, solar converters, uninterruptible

power supplies (UPS) and automotive/appliance motor drives.

MicroPower Direct
781-344-8226; http://www.micropowerdirect.com/ [1]

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