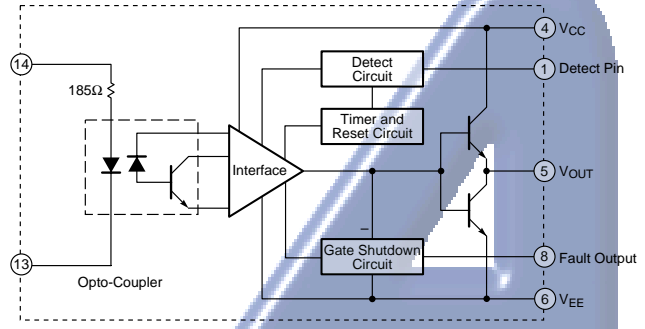


MITSUBISHI HYBRID ICs

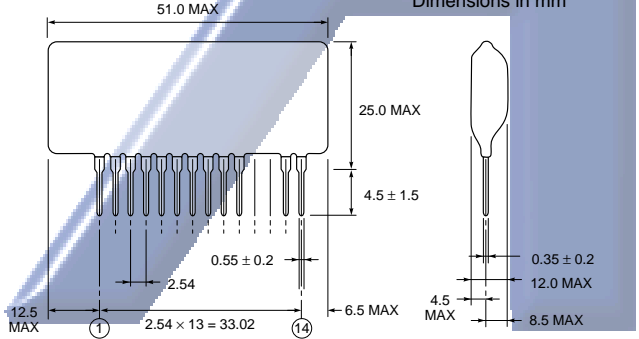
M57962L

HYBRID IC FOR DRIVING IGBT MODULES

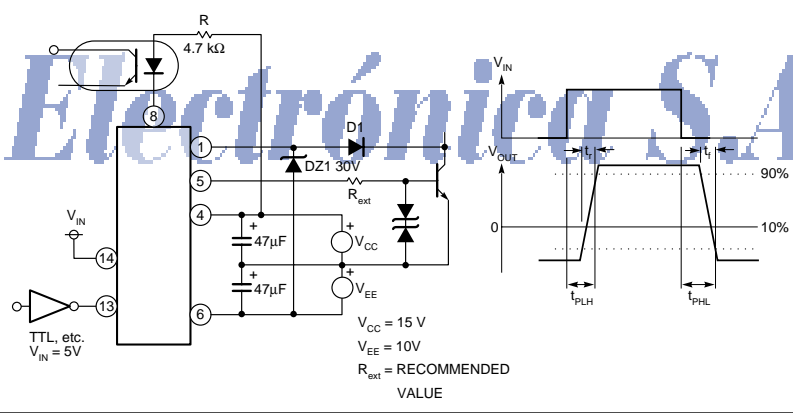
Block Diagram



Outline Drawing



Test Circuit



Hybrid Integrated Circuit For Driving IGBT Modules

Description:

M57962L is a hybrid integrated circuit designed for driving n-channel IGBT modules in any gate amplifier application. This device operates as an isolation amplifier for these modules and provides the required electrical isolation between the input and output with an opto-coupler. Short circuit protection is provided by a built in desaturation detector. A fault signal is provided if the short circuit protection is activated.

Features:

- Built in high CMRR opto-coupler (V_{CMR} : Typical 30kV/µs, Min. 15kV/µs)
- Electrical Isolation between input and output with opto-couplers ($V_{ISO} = 2500, V_{RMS}$ for 1 min.)
- TTL compatible input interface
- Two supply drive topology
- Built in short circuit protection circuit with a pin for fault output

Application:

To drive IGBT modules for inverter, AC Servo systems, UPS, CVCF inverter, and welding applications.

Recommended Modules:

- $V_{CES} = 600V$ Series (up to 400A Class)
- $V_{CES} = 1200V$ Series (up to 200A Class)
- $V_{CES} = 1400V$ Series (up to 200A Class)

Electrónica S.A. de C.V.