

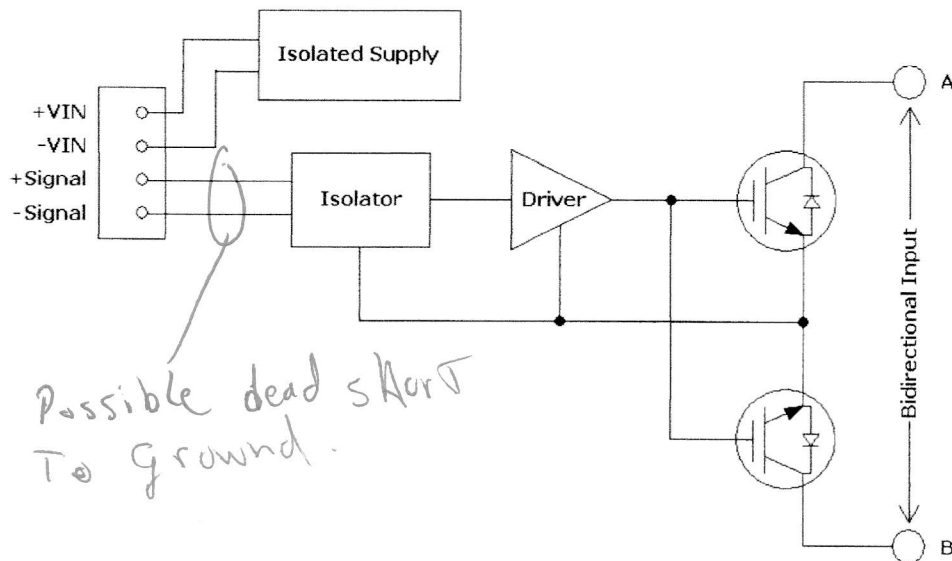
effective gate capacitance is cut in half and can greatly improve performance if bi-directional switching is not necessary.

As a safety precaution, the power and signal inputs are protected with input diodes to guard against improper input polarities. The power supply input can withstand -40V and the signal input can withstand up to -100V.

Thermal Considerations

The SSR3A has a heatsink with a thermal resistance of $3.7\text{ }^{\circ}\text{C/W}$ to maximize heat dissipation from the IGBTs. The driver chip is also equipped with a DIP cooler heatsink which has a thermal resistance of $30\text{ }^{\circ}\text{C/W}$. However, for higher frequencies, a light airflow is recommended to keep the driver from overheating. In most cases the large heatsink can keep the IGBTs cool but the user can use the thermal resistance of the heatsink and the anticipated switch power dissipation to determine if additional airflow cooling is necessary.

Simplified Circuit Diagram



Questions and Tech Support

For questions or comments about this product, contact:

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