





Diodes D7 through D8 form the tube bias supply. The number of diodes required is ultimately determined by the voltage drop across the solid state relay when conducting in the 'keyed' state. With the relay I use, 5 diodes are sufficient to get an idle current of 200mA.

The solid state D.C. relay is capable of switch approx. 2A and a couple of hundred volts. 8 to 12 volts and 14 mA of current flow is required to activate the relay. This was purchased at Jaycar

Electronics, catalogue number:- SY-4093

The circuit comprising Q1, Q2 & Q3 provides a low voltage, low current interface to a modern transceiver to protect the transceivers delicate amplifier keying circuitry.

K3 is a small, quiet 12volt D.C. reed relay which is used to maintain the functionality of the ON-AIR & RX lights on the front panel.

SW1 (standby) is the front panel switch on the TL-922.

[Download a PDF version of the above schematic](#)

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Amateur Radio VK2FC