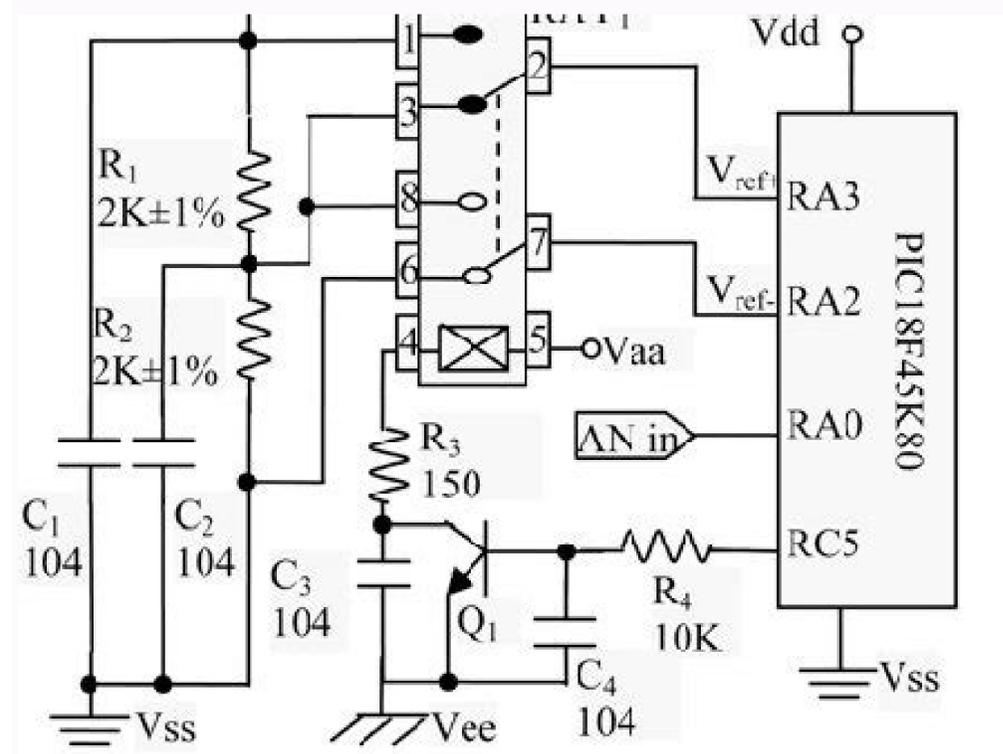




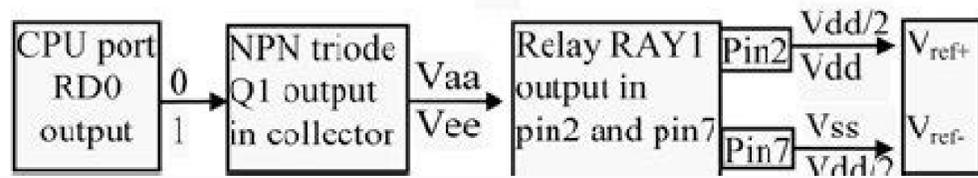
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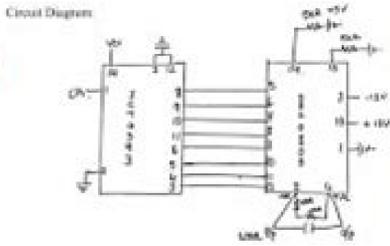
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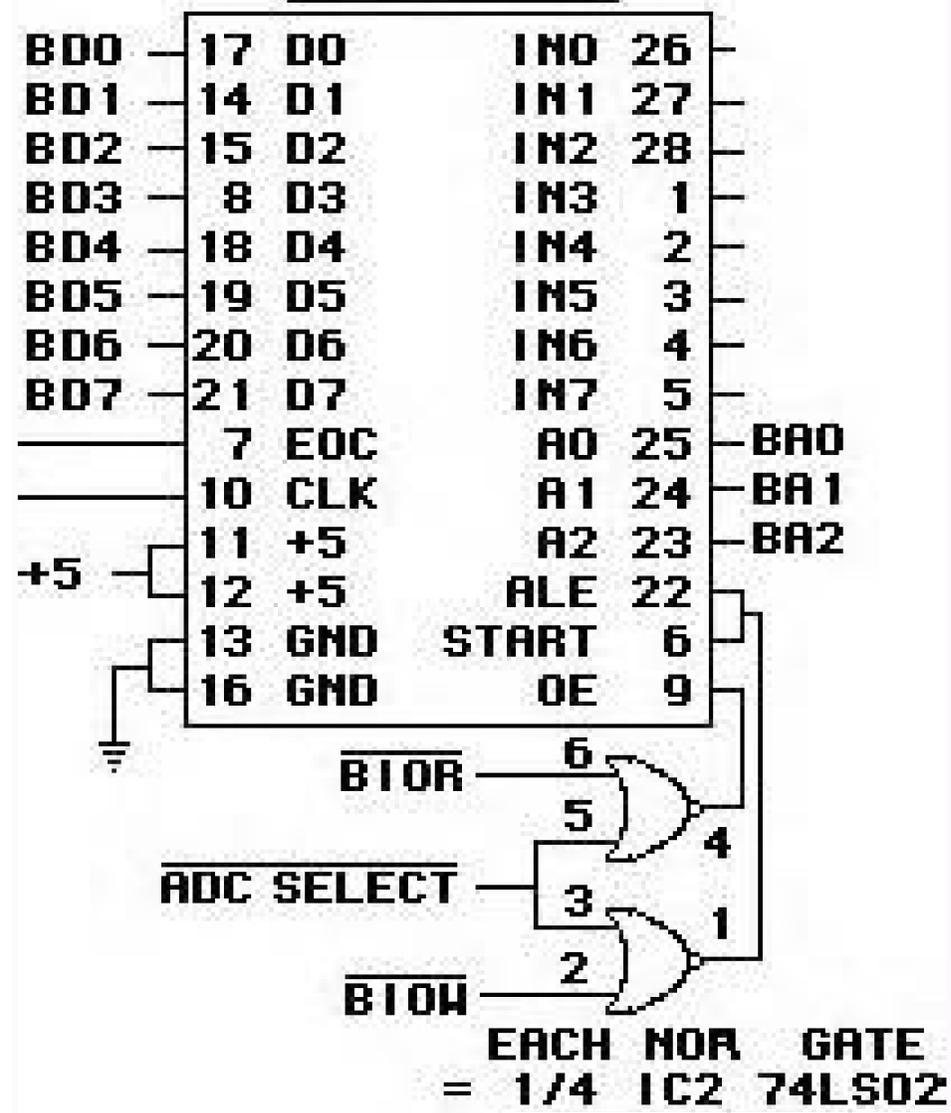
DIGITAL TO ANALOG CONVERTER



#Technical
Presented By
Nagayya S Hiremath
Asst Professor
ECE Department



IC4 ADC0809



Four Probe Set-Up DFP-03



Resistivity of Semiconductor by Four Probe Method at different temperatures and determination of the band-gap

The Four Probe Method is one of the standard and most widely used method for the measurement of resistivity. In its useful form, the four probes are collinear. The error due to contact resistance, which is significant in the electrical measurement on semiconductors, is avoided by the use of two extra contacts (probes) between the current contacts, in this arrangement the contact resistance may all be high compare to the sample resistance, but as long as the resistance of the sample and contact resistance's are small compared with the effective resistance of the voltage measuring device (potentiometer, electrometer or electronic voltmeter), the measured value will remain unaffected. Because of pressure contacts, the arrangement is also specially useful for quick measurement on different samples or sampling different parts of the sample.

Description of the experimental set-up

- 1. Probes Arrangement**
It has four individually spring loaded probes. The probes are collinear and equally spaced. The probes are mounted in a teflon bush, which ensure a good electrical insulation between the probes. A teflon spacer near the tips is also provided to keep the probes at equal distance. The probe arrangement is mounted in a suitable stand, which also hold the sample plate. To ensure the correct measurement of sample temperature, the RTD is embedded in the sample plate just below the sample. This stand also serves as the lid of temperature controlled oven. Proper leads are provided for the current and voltage measurement.
- 2. SAMPLE**
Germanium crystal in the form of a chip.
- 3. OVEN**
This is high quality temperature controlled oven suitable for Four Probe Set-up. The oven has been designed for fast heating and cooling rates, which enhances the effectiveness of the controller.

SES Instruments Pvt. Ltd
452, Adarsh, Roorkee-247967, India • Phone: 91-1332-272852 • Fax: 277118
email: ses@sestechno.com • website: www.sestechno.com

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