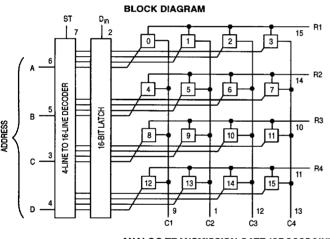
MOTOROLA SEMICONDUCTOR - MOTOROLA SC (TELECOM) **TECHNICAL DATA**

4 × 4 Crosspoint Switch with Control Memory

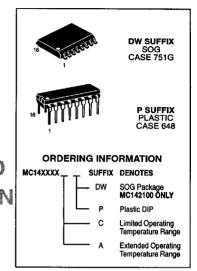
The MC142100 and MC145100 consist of 16 crosspoint switches (analog transmission gates) organized in 4 rows and 4 columns. Both devices have 16 latches, each of which controls the state of a particular switch. Any of the 16 switches can be selected by applying its address to the device and a pulse to the strobe input. The selected crosspoint will turn on if during strobe, Din was a 1 and will turn off if during strobe, Din was a 0. In addition the MC145100 will reset all non-selected switches in the same row as the selected switch. Other switches are unaffected. In the MC145100, an internal power-on reset turns off all switches as power is applied.

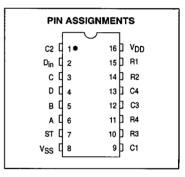
- Internal Latches Control State of Switches
- Power-On Reset (MC145100 Only)

- Low On Resistance Typically on 110 Ω @ 10 Vdc
- Large Analog Range (VDD-VSS) RECOMMENDED
- Matched Switch Characteristics
- FOR NEW DESIGN High CMOS Noise Immunity
- MC142100 Pin-for-Pin Replacement for CD22100

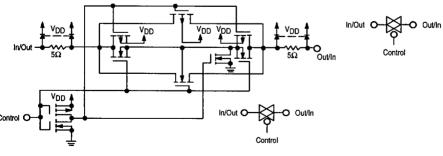


MC142100 MC145100





ANALOG TRANSMISSION GATE (CROSSPOINT) SCHEMATIC



MOTOROLA COMMUNICATIONS DEVICE DATA

MC142100-MC145100

2-459