

MC14023B MC14023UB

TRIPLE 3-INPUT "NAND" GATE

The MC14023B and MC14023UB are constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Ail Outputs Buffered (MC14023B only)
- Capable of Driving Two Low-power TTL Loads or One Low-power Schottky TTL Load Over the Rated Temperature Range. (MC14023B only)
- Double Diode Protection on All Inputs
- Pin-for-Pin Replacements for CD4023B and CD4023UB.

MAXIMUM RATINGS* (Voltages Referenced to VSS)

Symbol	Parameter	Value	Unit
V _{DD}	DC Supply Voltage	- 0.5 to + 18.0	٧
Vin. Vout	DC or Transient)	-0.5 to $V_{DD} + 0.5$	V
lin-lout	Input or Output Current (DC or Transient), per Pin	± 10	mA
PD	Power Dissipation, per Package†	500	mW
Tsta	Storage Temperature	-65 to +150	°C
'sig	Lead Temperature (8-Second Soldering)	260	°C

*Maximum Ratings are those values beyond which damage to the device may occur. †Temperature Derating: Plastic "P" Package: -12mW/°C from 65°C to 85°C Ceramic "L" Package: -12mW/°C from 100°C to 125°C

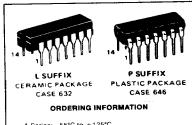
See the MC14001B data sheet for complete characteristics of the

See the MC14001UB data sheet for complete characteristics for the UB device.

CMOS SSI

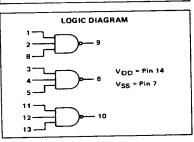
(LOW-POWER COMPLEMENTARY MOS)

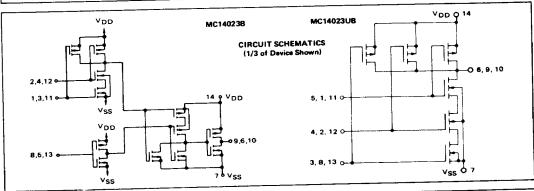
TRIPLE 3-INPUT "NAND" GATE



A Series: -55°C to +125°C MC14XXXBAL or UBAL (Ceramic Package Only)

C Series: -40°C to +85°C MC14XXXBCP or UBCP (Plastic Package) MC14XXXBCL or UBCL (Ceramic Package)





This device contains protection circuitry to guard against damage due to high static voltages or electric fields. However, precautions must be taken to avoid applications of any voltage higher than maximum rated voltages to this high-impedance cir-

cuit. For proper operation, V_{in} and V_{out} should be constrained to the range V_{SS} \leq (V_{in} or V_{out}) \leq V_{DD}.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either VSS or VDD). Unused outputs must be left open.