MC14503B

Hex Non-Inverting 3-State Buffer

The MC14503B is a hex non–inverting buffer with 3–state outputs, and a high current source and sink capability. The 3–state outputs make it useful in common bussing applications. Two disable controls are provided. A high level on the Disable A input causes the outputs of buffers 1 through 4 to go into a high impedance state and a high level on the Disable B input causes the outputs of buffers 5 and 6 to go into a high impedance state.

- 3–State Outputs
- TTL Compatible Will Drive One TTL Load Over Full Temperature Range
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Two Disable Controls for Added Versatility
- Pin for Pin Replacement for MM80C97 and 340097

MAXIMUM RATINGS (Voltages Referenced to V_{SS}) (Note 2.)

Symbol	Parameter	Value	Unit
V _{DD}	DC Supply Voltage Range	-0.5 to +18.0	V
V _{in} , V _{out}	Input or Output Voltage Range (DC or Transient)	-0.5 to V _{DD} + 0.5	V
I _{in}	Input Current (DC or Transient) per Pin	±10	mA
l _{out}	Output Current (DC or Transient) per Pin	±25	mA
P _D	Power Dissipation, per Package (Note 3.)	500	mW
T _A	Ambient Temperature Range	-55 to +125	°C
T _{stg}	Storage Temperature Range	-65 to +150	°C
TL	Lead Temperature (8–Second Soldering)	260	°C

- Maximum Ratings are those values beyond which damage to the device may occur.
- Temperature Derating: Plastic "P and D/DW" Packages: – 7.0 mW/°C From 65°C To 125°C

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 circuit. 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 V_{SS} or V_{DD}). Unused outputs must be left open.



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MARKING DIAGRAMS

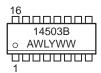


PDIP-16 P SUFFIX CASE 648



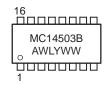


SOIC-16 D SUFFIX CASE 751B





SOEIAJ-16 F SUFFIX CASE 966



A = Assembly Location

WL or L = Wafer Lot YY or Y = Year WW or W = Work Week

ORDERING INFORMATION

Device	Package	Shipping	
MC14503BCP	PDIP-16	2000/Box	
MC14503BD	SOIC-16	48/Rail	
MC14503BDR2	SOIC-16	2500/Tape & Reel	
MC14503BF	SOEIAJ-16	See Note 1.	
MC14503BFEL	SOEIAJ-16	See Note 1.	

 For ordering information on the EIAJ version of the SOIC packages, please contact your local ON Semiconductor representative.