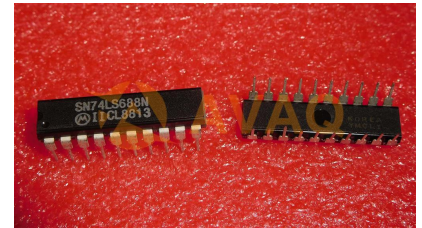


## Identity Comparator 8-Bit Totem-Pole Inverting 20-Pin PDIP Box



Images are for reference only

[Inquiry](#)

**Manufacturer:** [ON Semiconductor, LLC](#)

**Package/Case:** DIP

**Product Type:** Logic ICs

**Lifecycle:** Obsolete

### General Description

These magnitude comparators perform comparisons of two eight-bit binary or BCD words. All types provide  $P = Q$  outputs and all except 'LS688 provide  $P > Q$  outputs as well. The 'LS682, 'LS684, 'LS686, and 'LS688 have totem-pole outputs, while the 'LS685 and 'LS687 have open-collector outputs. The 'LS682 features 20-k pullup termination resistors on the Q inputs for analog or switch data.

### Key Features

Compares Two-8-Bit Words

Choice of Totem-Pole or Open-Collector Outputs

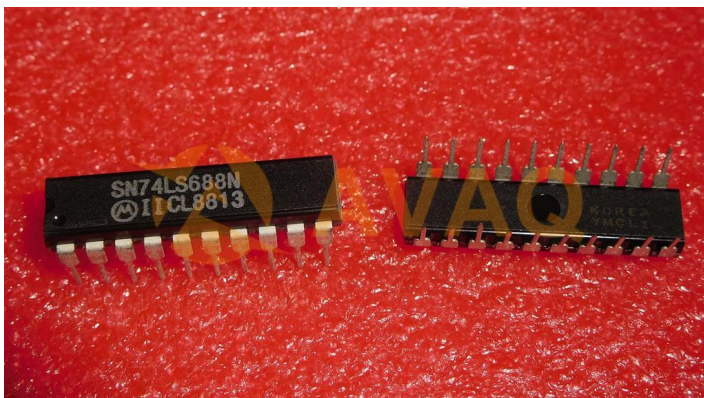
Hysteresis at P and Q Inputs

'LS682 has 20-k Pullup Resistors on the Q Inputs

SN74LS686 and 'LS687 ... JT and NT 24-Pin, 300-Mil Packages

### Description

These magnitude comparators perform comparisons of two eight-bit binary or BCD words. All types provide  $P = Q$  outputs and all except 'LS688 provide  $P > Q$  outputs as well. The 'LS682, 'LS684, 'LS686, and 'LS688 have totem-pole outputs, while the 'LS685 and 'LS687 have open-collector outputs. The 'LS682 features 20-k pullup termination resistors on the Q inputs for analog or switch data.



### Recommended For You

**SN54LS08J**

ON Semiconductor, LLC  
CDIP14

**SN74LS280N**

ON Semiconductor, LLC  
DIP

**SN74LS83AN**

ON Semiconductor, LLC  
DIP16

**NCV1729SN35T1G**

ON Semiconductor, LLC  
SOT23-6

**SN74LS123D**

ON Semiconductor, LLC  
SOP

**SN74LS258BN**

ON Semiconductor, LLC  
DIP16

**SN74LS283MEL**

ON Semiconductor, LLC  
SOP16

**SN74LS83AD**

ON Semiconductor, LLC  
SOP16-3.9MM

**SN74LS283NG**

ON Semiconductor, LLC  
PDIP-16

**SN74LS283D**

ON Semiconductor, LLC  
SOP16

**SN74LS280DR2**

ON Semiconductor, LLC  
3.9mm-14

**SN74LS684N**

ON Semiconductor, LLC  
DIP-20

**SN74LS670D**

ON Semiconductor, LLC  
SOP-16

**SN74LS283M**

ON Semiconductor, LLC  
SOP16

**SN74LS181NG**

ON Semiconductor, LLC  
24-PDIP