

# SN5446A, '47A, '48, SN54LS47, 'LS48, 'LS49 SN7446A, '47A, '48, SN74LS47, 'LS48, 'LS49 BCD-TO-SEVEN-SEGMENT DECODERS/DRIVERS

SDLS111 – MARCH 1974 – REVISED MARCH 1988

## '46A, '47A, 'LS47 feature

- Open-Collector Outputs Drive Indicators Directly
- Lamp-Test Provision
- Leading/Trailing Zero Suppression

## '48, 'LS48 feature

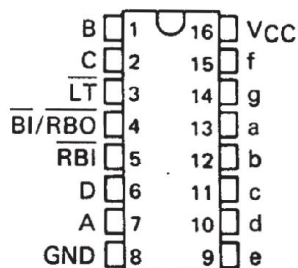
- Internal Pull-Ups Eliminate Need for External Resistors
- Lamp-Test Provision
- Leading/Trailing Zero Suppression

## 'LS49 feature

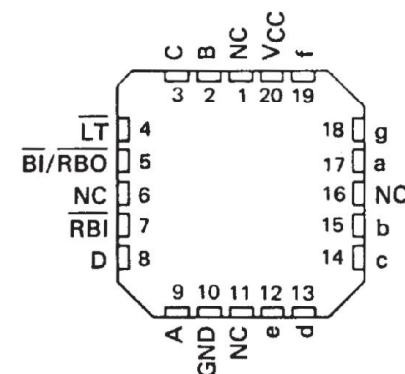
- Open-Collector Outputs
- Blanking Input

SN5446A, SN5447A, SN54LS47, SN5448,  
SN54LS48 . . . J PACKAGE  
SN7446A, SN7447A,  
SN7448 . . . N PACKAGE  
SN74LS47, SN74LS48 . . . D OR N PACKAGE

(TOP VIEW)

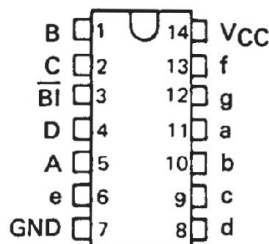


SN54LS47, SN54LS48 . . . FK PACKAGE  
(TOP VIEW)

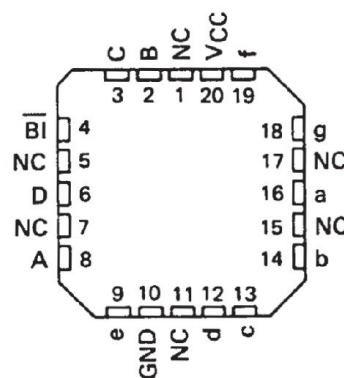


SN54LS49 . . . J OR W PACKAGE  
SN74LS49 . . . D OR N PACKAGE

(TOP VIEW)



SN54LS49 . . . FK PACKAGE  
(TOP VIEW)



NC – No internal connection

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

 **TEXAS  
INSTRUMENTS**

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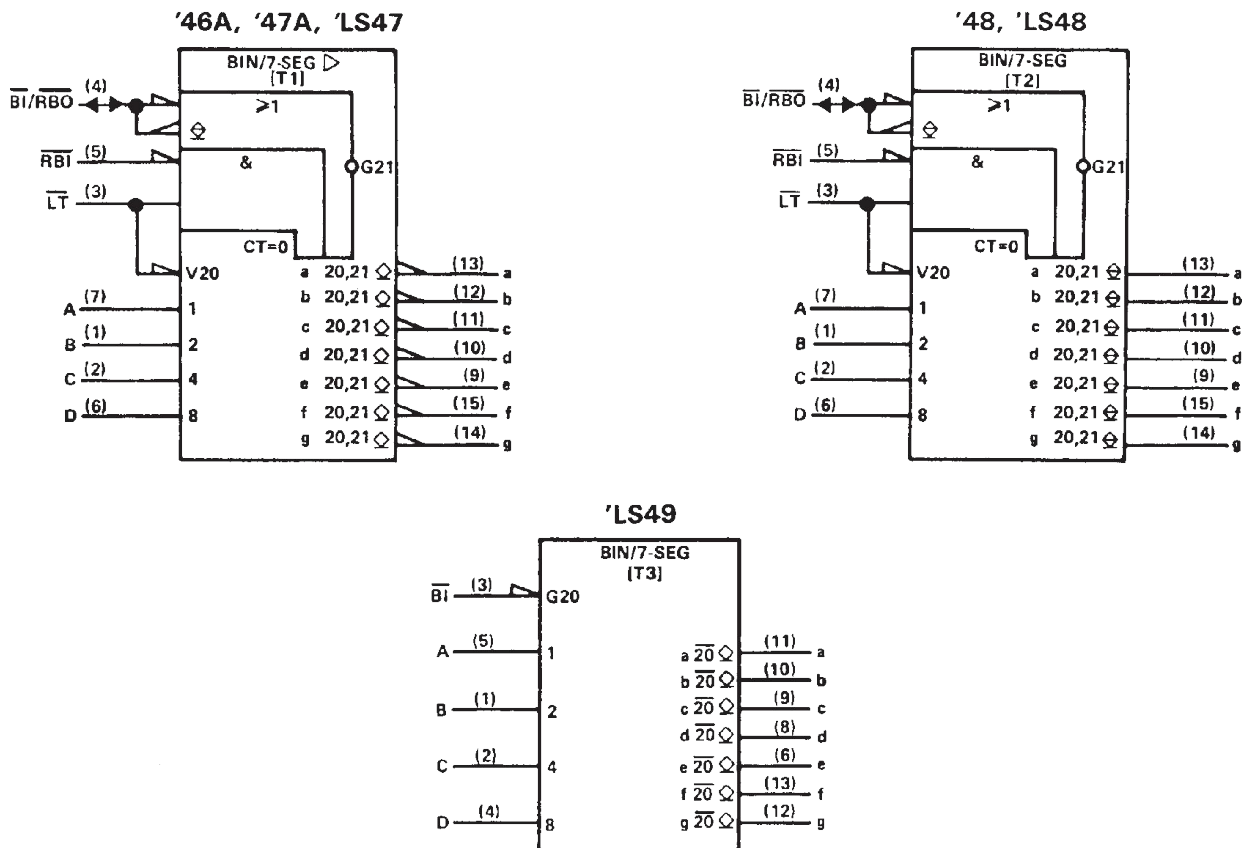
SN5446A, '47A, '48, SN54LS47, 'LS48, 'LS49  
 SN7446A, '47A, '48, SN74LS47, 'LS48, 'LS49  
 BCD-TO-SEVEN-SEGMENT DECODERS/DRIVERS

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- All Circuit Types Feature Lamp Intensity Modulation Capability

TYPE	DRIVER OUTPUTS				TYPICAL POWER DISSIPATION	PACKAGES
	ACTIVE LEVEL	OUTPUT CONFIGURATION	SINK CURRENT	MAX VOLTAGE		
SN5446A	low	open-collector	40 mA	30 V	320 mW	J, W
SN5447A	low	open-collector	40 mA	15 V	320 mW	J, W
SN5448	high	2-k $\Omega$ pull-up	6.4 mA	5.5 V	265 mW	J,W
SN54LS47	low	open-collector	12 mA	15 V	35 mW	J, W
SN54LS48	high	2-k $\Omega$ pull-up	2 mA	5.5 V	125 mW	J, W
SN54LS49	high	open-collector	4 mA	5.5 V	40 mW	J, W
SN7446A	low	open-collector	40 mA	30 V	320 mW	J, N
SN7447A	low	open-collector	40 mA	15 V	320 mW	J, N
SN7448	high	2-k $\Omega$ pull-up	6.4 mA	5.5 V	265 mW	J, N
SN74LS47	low	open-collector	24 mA	15 V	35 mW	J, N
SN74LS48	high	2-k $\Omega$ pull-up	6 mA	5.5 V	125 mW	J, N
SN74LS49	high	open-collector	8 mA	5.5 V	40 mW	J, N

logic symbols†



†These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, N, and W packages.



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