

SERIES 3600 LAMP and POWER DRIVERS

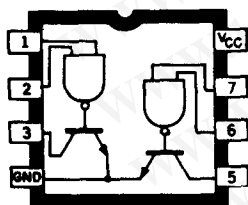
These 'mini-DIP' dual peripheral and power drivers are bipolar monolithic integrated circuits incorporating AND, NAND, OR, or NOR logic gates, high-current switching transistors, and transient suppression diodes on the same chip. The two output transistors are capable of simultaneously sinking 300 mA continuously. In the OFF state, these drivers will sustain at least 80 V.

FEATURES

- Four Logic Types
- DTL/TTL/PMOS/CMOS Compatible Inputs

- Low Input Current
- 300 mA Continuous Output Current
- Sustaining Voltage of 80 V
- Hermetically-Sealed Package to MIL-M-38510
- High-Reliability Screening to MIL-STD-883, Class B
- Operating Temperature Range:
 - 0°C to +70°C (UDN series)
 - 55°C to +125°C (UDS series)
- Plastic Package (8-pin) Dual In-Line M
- Hermetic Package (8-pin) Dual In-Line H

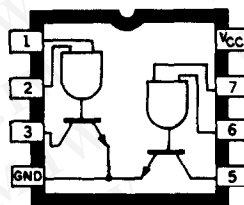
DUAL AND DRIVER



DWG. NO. A-9792

UDN-3611M
UDN-3611H
UDS-3611H
UDS-3611H MIL

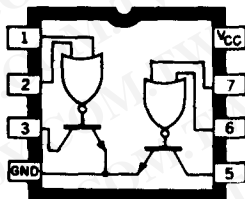
DUAL NAND DRIVER



DWG. NO. A-9793

UDN-3612M
UDN-3612H
UDS-3612H
UDS-3612H MIL

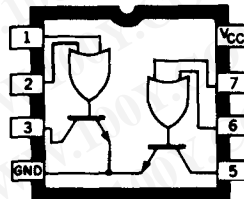
DUAL OR DRIVER



DWG. NO. A-9795

UDN-3613M
UDN-3613H
UDS-3613H
UDS-3613H MIL

DUAL NOR DRIVER



DWG. NO. A-9794

UDN-3614M
UDN-3614H
UDS-3614H
UDS-3614H MIL

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Alpha-Numeric CROSS-REFERENCE to SPRAGUE Integrated Circuits

To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type
SN75474P	UDN3614M	SN76642N	ULN2113A	TL1741C	ULN2151D	732DC	ULN2120A
SN76104N	ULN2120A	SN76643N	ULN2111A	TL7401N	US8881A	741-93-5B	ULN2151D
SN76105N	ULN2122A	SN76665N	ULN2165A	TL7437N	US7437A	741CE	ULN2151D
SN76111N	ULN2121A	SN76669N	ULN2136A	TL7438N	US7438A	741HC	ULN2151D
SN76113N	ULN2128A	SN76675N	ULN2129A	UA741CT	ULN2151D	741TC	ULN2151M
SN76115N	ULN2110A	SN76678P	ULN2209M	UA741CV	ULN2151M	746DC	ULN2114A
SN76116N	ULN2244A	SN76688ND	ULN2211P	UA741EHC	ULN2151D	746HC	ULN2114K
SN76130N	ULN2126A	SN76689N	ULN2289A	UA741HC	ULN2151D	753TC	ULN2209M
SN76177ND	ULN2278P	SSS741BJ	ULN2151D	UA741TC	ULN2151M	758DC	ULN2244A
SN76226	ULN2216	SW7401N	US8881A	UA2136	ULN2136A	767DC	ULN2128A
SN76227	ULN2217	SW7437N	US7437A	UA3064	ULN2264A	767PC	ULN2128A
SN76228	ULN2218	SW7438N	US7438A	UA3065	ULN2165A	780DC	ULN2124A
SN76242N	ULN2124A	T2741WV	ULN2151D	UA3067	ULN2267A	781DC	ULN2127A
SN76243AN	ULN2127A	T7401B1	US8881A	UA3075	ULN2129A	7432DC	US7432A
SN76246N	ULN2114A	TBA221	ULN2151D	UA3089	ULN2289A	7432PC	US7432A
SN76246N	ULN2228A	TBA221B	ULN2151M	UC4741C	ULN2151D	7437DC	US7437A
SN76267N	ULN2267A	TBA221N	ULN2151D	UC4741CE	ULN2151M	7437PC	US7437A
SN76298N	ULN2298A	TBA331	ULN2046	XR1310	ULN2110A	7438DC	US7438A
SN76564N	ULN2264A	TBA341	ULN2054	705PC	ULN2278P	7438PC	US7438A
SN76635N	ULN2137A	TDA1200	ULN2289A	720DC	ULN2137A	7439DC	US7439A
				729DC	ULN2122A		

Original Source CROSS-REFERENCE to SPRAGUE Integrated Circuits

To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type
ADVANCED MICRO DEVICES INC		FAIRCHILD SEMICONDUCTOR Cont.		INTERSIL INC		MOTOROLA SEMI. PROD. INC. Cont.	
AM741HC	ULN2151D	CA3086	ULN2086A	ICB8008C	ULN2151D	MC1339P2	ULN2126A
AMSSS741CJ	ULN2151D	SN75451BP	UDN3611M	ICB8741C	ULN2151D	MC1356P	ULN2136A
AEG-TELEFUNKEN		SN75452BP	UDN3612M	ICL8008CPA	ULN2151M	MC1357P2	ULN2111A
TL1741C	ULN2151D	SN75453BP	UDN3613M	ICL8008CT Y	ULN2151D	MC1357PQ	ULN2111N
TL7401N	US8881A	SN75454BP	UDN3614M	741-93-5B	ULN2151D	MC1358P2	ULN2165A
TL7437N	US7437A	UA741EHC	ULN2151D	ITT SEMICONDUCTORS			
TL7438N	US7438A	UA741HC	ULN2151D	ITT505*	UHP482	MC1358PQ	ULN2165N
		UA741TC	ULN2151M	ITT512	UHP491	MC1364P2	ULN2264A
		UA2136	ULN2136A	ITT552	ULN2001A	MC1370P	ULN2124A
		UA3064	ULN2264A	ITT554	ULN2002A	MC1371P2	ULN2127A
				ITT556	ULN2003A	MC1375P	ULN2129A
ANALOG DEVICES INC				ITT3064	ULN2264A	MC1389P	ULN2289A
AD502J	ULN2151D	UA3065	ULN2165A	ITT3065	ULN2165A	MC1398P2	ULN2298A
AD502K	ULN2151D	UA3067	ULN2267A	ITT7401N	US8881A	MC1439G	ULN2139D
AD512J	ULN2151D	UA3075	ULN2129A	ITT7438AN	US7438A	MC1439P1	ULN2139M
AD512K	ULN2151D	UA3089	ULN2289A	ITT7437N	US7437A	MC1741CG	ULN2151D
AD514J	ULN2151D	705PC	ULN2278P	LITHIC SYSTEMS INC			
AD514K	ULN2151D			LA3045	ULS2045H	MC1741CP1	ULN2151M
AD514L	ULN2151D	720DC	ULN2137A	LA3046	ULN2046A	MC3003	US7432A
AD741CH	ULN2151D	729DC	ULN2122A	LA3086	ULN2086A	MC3491P*	UHP482
AD741CN	ULN2151M	732DC	ULN2120A			MC7437L	US7437A
AD741JN	ULN2151M	741CE	ULN2151D			MC7438L	US7438A
		741HC	ULN2151D	MICROPAC INDUSTRIES INC			
AD741KH	ULN2151D					MC75451P	UDN3611M
AD741KN	ULN2151M					MC75452P	UDN3612M
AD741LH	ULN2151D					MC75453P	UDN3613M
AD741LN	ULN2151M					MC75454P	UDN3614M
						MPQ2221	TPQ2221
EXAR INTEGRATED SYSTEMS INC		741TC	ULN2151M	MIL ELECTRONICS INC			
XR1310	ULN2110A	746DC	ULN2114A	SSS741CJ	ULN2151D	MPQ2222	TPQ2222
		746HC	ULN2114K			MPQ2483	TPQ2483
		753TC	ULN2209M	ML3046	ULN2046A	MPQ2484	TPQ2484
		758DC	ULN2244A	MOTOROLA SEMI. PROD. INC.			
		767DC	ULN2128A	MC1304P	ULN2120A	MPQ2906	TPQ2906
		767PC	ULN2128A	MC1305P	ULN2122A	MPQ2907	TPQ2907
		780DC	ULN2124A	MC1307P	ULN2128A	MPQ3725	TPQ3725A
		781DC	ULN2127A	MC1310EP	ULN2110A	MPQ3798	TPQ3798
		7432DC	US7432A	MC1310P	ULN2110A	MPQ3799	TPQ3799
		7432PC	US7432A			MPQ3904	TPQ3904
		7437DC	US7437A	MC1311P	ULN2244A	MPQ3906	TPQ3906
		7437PC	US7437A	MC1324P	ULN2224A	MPQ6001	TPQ6001
CA3045	ULN2045H	7438DC	US7438A	MC1328P	ULN2228A	MPQ6002	TPQ6002
CA3046	ULN2046A	7438PC	US7438A	MC1328P2	ULN2114A	MPQ6100	TPQ6100
CA3065	ULN2165A	7439DC	US7439A	MC1328PQ	ULN2114N	MPQ6100A	TPQ6100A
CA3067	ULN2267A					SN7401N	US8881A
CA3075	ULN2129A						

*Indicates the Sprague suggested replacement is similar but not an exact pin-for-pin electrical replacement.

SPRAGUE

INTEGRATED CIRCUIT CROSS REFERENCE GUIDE O.E.M. TO SPRAGUE

Original Source CROSS-REFERENCE to SPRAGUE Integrated Circuits

To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type	To Replace	Use Sprague Type
NATIONAL SEMI. MICRO. DIV.		NUCLEONIC PRODUCTS CO. INC.		SGS-ATES		TEXAS INSTRUMENTS	
CA 3045	ULN2045H	NC7401N	US8881A	TDA 1200	ULN2289A	SN55462JP	UDS3612H
CA 3046	ULN2046A	SFC2046E	ULN2046A	L141T1	ULN2151D	SN55463JP	UDS3613H
CA 3054	ULN2054A	SFC2054EC	ULN2054A	T7401B1	US8881A	SN55464JP	UDS3614H
CA 3086	ULN2086A	N V PHILIPS		SIEMENS		SN55471JP	UDS3611H
DM7401N	US8881A	TBA221		ULN2151D	SN55472JP	UDS3612H	
DM7427N	US7427A	TBA221B	ULN2151M	SIGNETICS CORP.		SN55473JP	UDS3613H
DM7432N	US7432A	PLESSEY SEMICONDUCTORS		N5065A	ULN2165A	SN55474JP	UDS3614H
DM7437N	US7437A	SL3045	ULN2046A	N5070B	ULN2124A	SN75451BP	UDN3611M
DM7438N	US7438A	SL3046	ULN2046A	N5071A	ULN2127A	SN75452BP	UDN3612M
DS3611N	UDN3611M	SL3086	ULN2086A	N5072A	ULN2114A	SN75453BP	UDN3613M
DS3612N	UDN3612M	SL3145	ULN2045H	N5111A	ULN2111A	SN75454BP	UDN3614M
DS3613N	UDN3613M	PRECISION MONOLYTHICS INC.		N7401A	US8881A	SN75461P	UDN3611M
DS3614N	UDN3614M	DVR-01	UHP480	N7437A	US7437A	SN75462P	UDN3612M
DS7889N*	UHP482	SSS741BJ	ULN2151D	N7438A	US7438A	SN75463P	UDN3613M
DS8885N*	UHP481	RAYTHEON COMPANY		N8881A	US8881A	SN75464P	UDN3614M
DS8889N*	UHP482	RC741T	ULN2151D	NE546A	ULN2137A	SN75471P	UDN3611M
LM377	ULN2278P	RCA CORP. SOLID STATE DIV.		PA239	ULN2126A	SN75472P	UDN3612M
LM380	ULN2280B	CA 758E	ULN2244A	UA741CT	ULN2151D	SN75473P	UDN3613M
LM384	ULN2281B	CA 1310E	ULN2110A	UA741CV	ULN2151M	SN75474P	UDN3614M
LM741CH	ULN2151D	CA 1398E	ULN2298A	SILICON GENERAL INC.		SN76104N	ULN2120A
LM741CN	ULN2151M	CA 2111AE	ULN2111A	SG741CM	ULN2151M	SN76105N	ULN2122A
LM746N	ULN2114A	CA 3014	ULN2113A	SG741SCM	ULN2151M	SN76111N	ULN2121A
LM1304N	ULN2120A	CA 3045	ULN2045H	SG741SCT	ULN2151D	SN76113N	ULN2128A
LM1304N-01	ULN2120N	CA 3046	ULN2046A	SG3081N	ULN2081A	SN76115N	ULN2110A
LM1305N	ULN2122A	CA 3047	ULN2047	SG3082N	ULN2082A	SN76116N	ULN2244A
LM1305N-01	ULN2122N	CA 3054	ULN2054A	SG3086	ULN2086A	SN76130N	ULN2126A
LM1307N	ULN2128A	CA 3065	ULN2165A	SG3217J	ULN2151D	SN76177ND	ULN2278P
LM1307N-01	ULN2128N	CA 3067	ULN2267A	SG3821J	ULN2045H	SN76226	ULN2216
LM1310N	ULN2110A	CA 3070	ULN2124A	SG3821N	ULN2046A	SN76227	ULN2217
LM1800	ULN2244A	CA 3071	ULN2127A	SG3822N	ULN2054A	SN76228	ULN2218
LM1820N	ULN2137A	CA 3072	ULN2114A	SG3822N	ULN2054A	SN76242N	ULN2124A
LM1841N	ULN2136A	CA 3075	ULN2129A	SG3886N	ULN2086A	SN76243AN	ULN2127A
LM2111N	ULN2111A	CA 3081	ULN2081A	SOLITRON DEVICES INC.		SN76246N	ULN2114A
LM2111N-01	ULN2111N	CA 3082	ULN2082A	UC4741C	ULN2151D	SN76246N	ULN2228A
LM2113N	ULN2113A	CA 3083	ULN2083	UC4741CE	ULN2151M	SN76267N	ULN2267A
LM2113N-01	ULN2113N	CA 3086	ULN2086A	STEWART-WARNER MICROCIRCUITS INC.		SN76298N	ULN2298A
LM3045H	ULN2045H	CA 3089	ULN2289A	SW7401N	US8881A	SN76564N	ULN2264A
LM3046N	ULN2046A	CA 3120E	ULN2125A	SW7437N	US7437A	SN76635N	ULN2137A
LM3054N	ULN2054A	CA 3121	ULN2269A	SW7438N	US7438A	SN76642N	ULN2113A
LM3064N	ULN2264A	CA 3123E	ULN2137A	SW7438N	US7438A	SN76643N	ULN2111A
LM3065N	ULN2165A	R T C		TEXAS INSTRUMENTS		SN76665N	ULN2165A
LM3065N-01	ULN2165N	TBA221B	ULN2151M	SN7427N	US7427A	SN76669N	ULN2136A
LM3067N	ULN2267A	TBA221N	ULN2151D	SN7437N	US7437A	SN76675N	ULN2129A
LM3070N	ULN2124A	SESCOSEM		SN7438N	US7438A	SN76678P	ULN2209M
LM3071N	ULN2127A	TBA331	ULN2046	SN72741L	ULN2151D	SN76688ND	ULN2211P
LM3075N	ULN2129A	TBA341	ULN2054	SN72741P	ULN2151M	SN76689N	ULN2289A
LM3075N-01	ULN2129N	THOMSON CSF		SN55451B JP	UDS3611H	THOMSON CSF	
LM3086N	ULN2086A	SFC2741C		SN55452B JP	UDS3612H	SFC2741DC	ULN2151D
LM3611N	UDN3611M	SFC2741DC		SN55453B JP	UDS3613H	TRANSISTRON ELECTRONICS CORP.	
LM3612N	UDN3612M	T2741WV		SN55454B JP	UDS3614H	ULN2151D	
LM3613N	UDN3613M	ULN2151D		SN55461JP	UDS3611H	ULN2151D	
LM3614N	UDN3614M	ULN2151D		TEXAS INSTRUMENTS		ULN2151D	
MC1304P	ULN2120A	ULN2151D		ULN2151D		ULN2151D	
MC1305P	ULN2122A	ULN2151D		ULN2151M		ULN2151D	
MC1307P	ULN2128A	ULN2151D		ULN2151M		ULN2151D	
MC1310P	ULN2210A	ULN2151D		ULN2151M		ULN2151D	

*Indicates the Sprague suggested replacement is similar but not an exact pin-for-pin electrical replacement.

Although care has been taken in the preparation of this guide to insure its technical correctness, no responsibility is assumed by the Sprague World Trade Corp. for any consequences of the use of items listed.

Warranty is limited to replacement of defective parts only.

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