

HD74LS367A

Hex Bus Drivers (non-inverted data outputs with three-state outputs)

REJ03D0480-0200 Rev.2.00 Feb.18.2005

Features

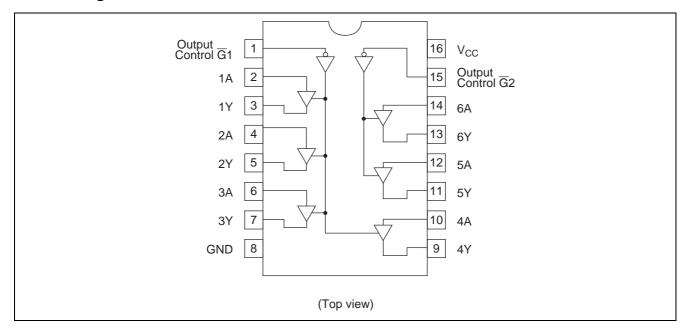
• Ordering Information

Part Name	Package Type	Package Code (Previous Code)	Package Abbreviation	Taping Abbreviation (Quantity)	
HD74LS367AP	DILP-16 pin	PRDP0016AE-B (DP-16FV)	Р	_	
HD74LS367AFPEL	SOP-16 pin (JEITA)	PRSP0016DH-B (FP-16DAV)	FP	EL (2,000 pcs/reel)	
HD74LS367ARPEL	SOP-16 pin (JEDEC)	PRSP0016DG-A (FP-16DNV)	RP	EL (2,500 pcs/reel)	

Notes: 1. Please consult the sales office for the above package availability.

2. The packages with lead-free pins are distinguished from the conventional products by adding V at the end of the package code.

Pin Arrangement



Function Table

G	Α	Υ
Н	X	Z
L	L	L
L	Н	Н

Note: H; high level, L; low level, X; irrelevant, Z; off (high-impedance) state of a 3-state output

Absolute Maximum Ratings

Item	Symbol	Ratings	Unit
Supply voltage	V _{CC}	7	V
Input voltage	V _{IN}	7	V
Output voltage (off-state)	V _{O (off)}	5.5	V
Power dissipation	P _T	400	mW
Operating temperature	Topr	−20 to +75	°C
Storage temperature	Tstg	-65 to +150	°C

Note: Voltage value, unless otherwise noted, are with respect to network ground terminal.

Recommended Operating Conditions

Item	Symbol	Min	Тур	Max	Unit
Supply voltage	V_{CC}	4.75	5.00	5.25	V
Output current	I _{OH}	_		-2.6	mA
Output current	I _{OL}	_	_	24	mA
Operating temperature	Topr	-20	25	75	°C

Electrical Characteristics

 $(Ta = -20 \text{ to } +75 \text{ }^{\circ}\text{C})$

Item	Symbol	min.	typ.*	max.	Unit	Condition		
Input voltage	V_{IH}	2.0	_	_	V			
Input voltage	V_{IL}		_	0.8	V			
Output valtage	V _{ОН}	2.4			V	$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V},$ $I_{OH} = -2.6 \text{ mA}$		
Output voltage	V _{OL}		_	0.5	V	$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}$		5 V, V _{IH} = 2 V,
	VOL	_		0.4	V	I _{OL} = 12 mA	$V_{IL} = 0.8 \text{V}$	J
Output current	1		_	20	^	$V_{O} = 2.4 \text{ V}$ $V_{CC} = 5.25 \text{ V}, V_{IH} = 2 \text{ V},$ $V_{IL} = 0.8 \text{ V}$		5 V, V _{IH} = 2 V,
Output current	l _{OZ}	_	_	-20	μΑ			/
	I _{IH}	_	_	20	μΑ	$V_{CC} = 5.25 \text{ V}, V_I = 2.7 \text{ V}$		
		_	_	-20	μΑ	$V_I = 0.5 \text{ V}, \overline{\text{G}} \text{ inposes } V_I = 0.5 \text{ V}$	uts 2 V	A inputs V _{CC} = 5.25 V
Input current	I_{IL}	_	_	-0.4	mA	$V_I = 0.4 \text{ V}, \overline{\text{G}} \text{ inputs } 0.4 \text{ V}$		A inputs v _{CC} = 5.25 v
		_	_	-0.4	mA	\overline{G} inputs $V_{CC} = 5.25 \text{ V}, V_I = 0.4 \text{ V}$		0.4 V
	II	_	_	0.1	mA	$V_{CC} = 5.25 \text{ V}, V_{I} = 7 \text{ V}$		
Short-circuit output current	los	-40	_	-225	mA	V _{CC} = 5.25 V		
Supply current	Icc**	_	14	24	mA	V _{CC} = 5.25 V		
Input clamp voltage	V _{IK}	_	_	-1.5	V	V _{CC} = 4.75 V, I _{IN} = -18 mA		

Notes: $^*V_{CC} = 5 \text{ V}$, $Ta = 25^{\circ}C$

 $^{^{**}}$ I_{CC} is measured with data inputs grounded and output control inputs at 4.5 V.

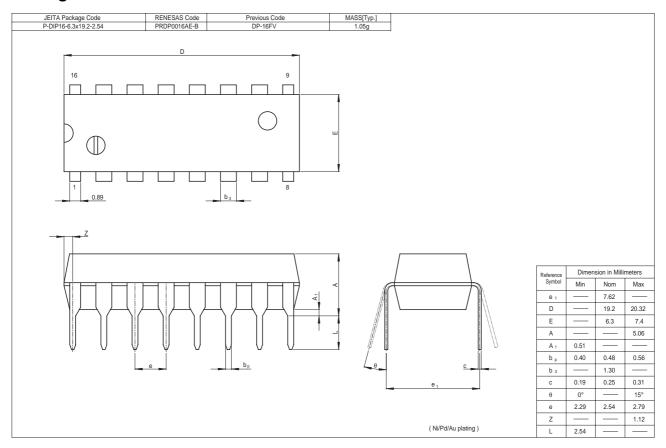
Switching Characteristics

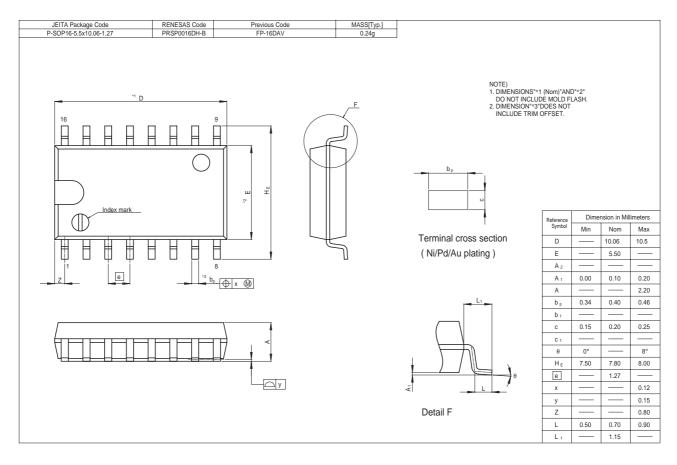
 $(V_{CC} = 5 \text{ V}, \text{Ta} = 25^{\circ}\text{C})$

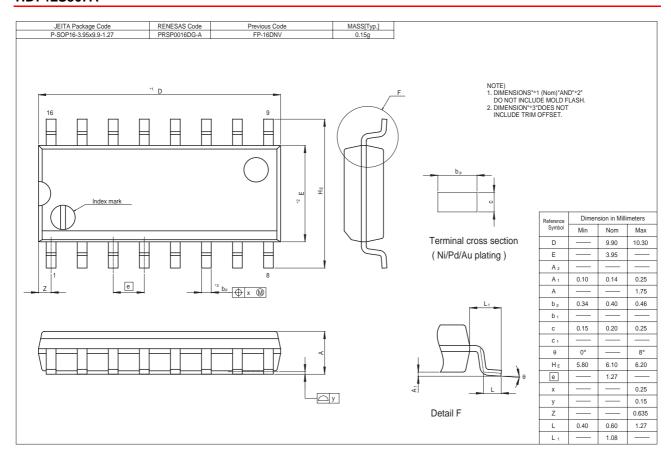
Item	Symbol	min.	typ.	max.	Unit	Condition
Propagation delay time	t _{PLH}	_	10	16	ns	$C_L = 45 \text{ pF}, R_L = 667 \Omega$
	t _{PHL}	_	9	22		
Output enable time	t _{zH}	_	19	35	ns	
	t_{ZL}	_	24	40		
Output disable time	t _{HZ}	_	_	30	ns	$C_L = 5 \text{ pF}, R_L = 667 \Omega$
	t_{LZ}	_	_	35		

Note: Refer to Test Circuit and Waveform of the Common Item "TTL Common Matter (Document No.: REJ27D0005-0100)".

Package Dimensions







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