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Cautions

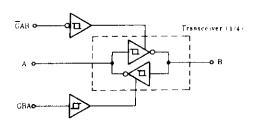
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BLOCK DIAGRAM



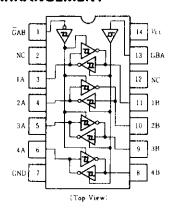
INFUNCTION TABLE

Contro	ol input	Data port status		
ĞAB	GBA	A	В	
Н	Н	Inverting output	Input	
L	Н	*		
Н	L	Isolated	Isolated	
L	L	Input	Inverting output	

Notes) 1. H; high level, L; low level

*; Possibly destructive oscillation may occur if the transceivers are enabled in both directions at once.

PIN ARRANGEMENT



ERECOMMENDED OPERATING CONDITIONS

Item	Symbol	min	typ	max	Unit
Output current	Іон	-		15	mA
	Ior.			24	mA

ELECTRICAL CHARACTERISTICS ($Ta = -20 \sim +75^{\circ}C$)

It	em	Symbol	Test Conditions		min	typ*	max	Unit
Input voltage V_{IH} V_{IL}		Vin			2.0			V
		V_{IL}					0.8	
Hysteresis	<u>.</u>	V_T + - · V_T	Vec = 4.75V		0.2	0.4	-	V
Output voltage		Vou -	$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V}, I_{OH} = -3 \text{ mA}$		2.4			V
			$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}, V_{IL} = 0.5 \text{ V}, I_{OH} = -15 \text{ mA}$		2	-	-	
			$V_{CC} = 4.75 \text{ V}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V}$	Io L = 12mA		-	0.4	v
		Vol.		IoL = 24mA	-	-	0.5	
_		Іогн	$V_0 = 2$	$V_0 = 2.7V$	-	-	40	μA
Output current		lozu	$V_{CC} = 5.25 \text{V}, V_{IH} = 2 \text{V}, V_{IL} = 0.8 \text{V}$ $V_O = 0.$	Vo = 0.4V			. 200	μΛ
		Iгн	$V_{CC} = 5.25 \text{V}, V_I = 2.7 \text{V}$		_	·	20	μA
	A Input		$V_{CC} = 5.25$ V, $V_I = 0.4$ V, $\overline{G}AB$ and $\overline{G}BA$ at	GND	-		~0.2	
_	B Input	lu l	V _{CC} =5.25V, V _I =0.4V, GAB and GBA at 4.5V		_	-	0 . 2,	mA mA
Input current	GAB or GBA	1	$V_{CC} = 5.25 \text{V}, V_I = 0.4 \text{V}$		_	_	-0.2	
	A or B		$V_{CC} = 5.25 \text{V}, V_I = 5.5 \text{V}$		-	_	0.1	
	GAB or GBA	h	$V_{CC} = 5.25 \text{V}, V_I = 7 \text{V}$			_	0.1	
Short-circuit	output current	Ios	$V_{CC} = 5.25 \text{V}$		40		225	mA
Supply current** Icca Icca Icca		Іссн	$V_{CC} = 5.25 \text{V}$		_	22	38	mA
		Iccz				29	50	
		Iccz				29	50	
Input clamp vo	ltage	Vik	$V_{CC} = 4.75 \text{V}, I_{IK} = -18 \text{mA}$			-	-1.5	v

* V_{CC}=5V, Ta=25°C

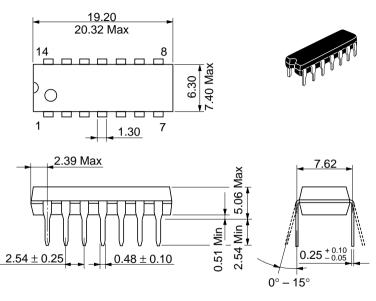
** With all outputs open, ICC is measured with transceivers enabled in one direction only, or with all transceivers disabled.

ESWITCHING CHARACTERISTICS (V_{CC} =5V, T_a =25°C)

Item	Symbol	Test Conditions	min	typ	max	Unit
	tPLH		<u> </u>	9	14	
Propagation delay time	tPHL.	$C_L = 45 pF$	-	12	18	
Output enable time	tzL	$R_L = 667 \Omega$	_	20	30]
	tzn-			15	23	ns
Output disable time	‡LZ	$C_L = 5pF$	_	15	25	
	tHZ	$R_L = 667 \Omega$		10	18	

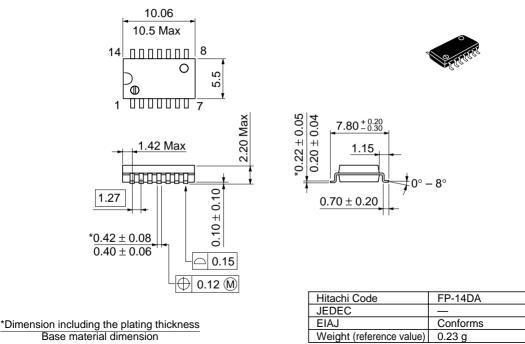
Note) Refer to Test Circuit and Waveform of the Common Item

Unit: mm

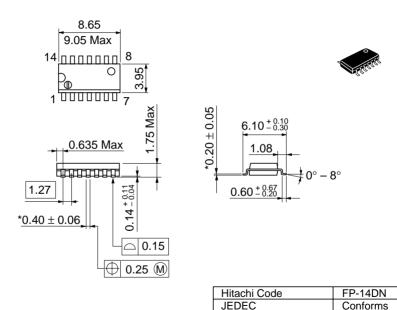


Hitachi Code	DP-14
JEDEC	Conforms
EIAJ	Conforms
Weight (reference value)	0.97 g

Unit: mm



Unit: mm



EIAJ

Weight (reference value)

Conforms

0.13 g

*Pd plating

Cautions

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