

No.1367B

LB1247

Active-Low Input,8-Unit, High-Current, Low-Saturation Driver

The LB1247 is a low active input type 8-unit driver array with high current, low saturation output.

Applications

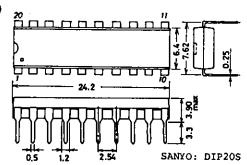
- . 4-phase stepping motor driver of 2 channels.
- . Especially suited for X-Y axis plotter printer driver.
- . High current, low saturation voltage general-purpose 8-unit driver (relay, LED, lamp solenoid, etc.)

Features

- . Low active input type.
- . Input protecting diodes.
- . High current capacity (400mA) and low saturation voltage (0.5Vmax).
- . With spark killer diodes.

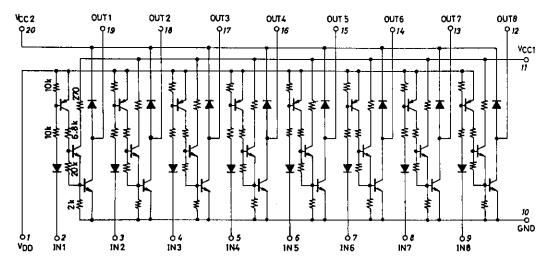
Absolute Maximum Ratings at T	a=25 ⁰ C			unit
Maximum Supply Voltage	$V_{\rm CC}1,$	2max	-0.3 to $+7.0$	V
Output Supply Voltage	VOUT		-0.3 to $+10.0$	v
Input Supply Voltage	VIN	GND≦V _{TN}	V _{DD} -7.0 to V _{DD} +15	v
Output Current	LOUT	Per unit	400 עם: 400	mA
Spark Killer Diode	IFSM	Pulse width≤35ms	400	mA
Forward Current	FOM	duty 5%		
GND Pin Current	IGND	Pulse width≤35ms	3000	mA
Instantaneous Current	ICCP	Pulse width≤35ms	3000	mA
Dissipation		duty 5%		
Allowable Power Dissipation	Pdmax		1130	mW
Operating Temperature	Topr		-20 to +75	°C
Storage Temperature	Tstg		-40 to +125	°C
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Allowable Operating Condition		a=25°C		unit
Supply Voltage	V _{CC1}		2.3 to 6.0	V
	^{V}DD		2.3 to 6.0	ν
"H" Level Input Voltage	$v_{\mathtt{IH}}$	GND ≥ V _{IN} , I _{OUT} = 200mA	$V_{\rm DD}$ -6.0 to $V_{\rm DD}$ -2.3	V
"L" Level Input Voltage	$\mathtt{v}_\mathtt{IL}$	I _{OUT} ≥100µÃ -	\overline{V}_{DD} -0.7 to \overline{V}_{DD} +15	V

Package Dimensions 3021B-D20SIC (unit:mm)

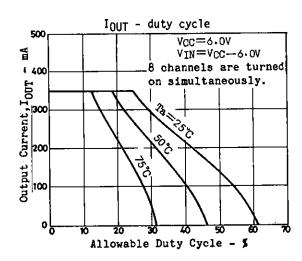


Electrical Characteristics at Ta=25°C, VDD=VCC1=VCC min typ max unit					
Output Voltage	V _{OUT1}	$V_{CC} = 2.3V, V_{IN} = V_{CC} - 2.3V, I_{OUT} = 200mA$	•	0.4	. 4
Output Voltage	V _{OUT2}	V _{CC} =3.5V, V _{IN} =V _{CC} -3.0V, I _{OUT} =200mA		0.25	V
Output Voltage	V _{OUT3}	V _{CC} =6.0V, V _{IN} =V _{CC} -5.5V, I _{OHT} =400mA		0.5	V
Output Sustain Voltage	V _{O(sus)}	$I_{OHT}=400\text{mA}, t \le 10\text{usec}$ 10			V
Input Current	ITM	$V_{TN} = V_{CC} - 6.0V, I_{OUT} = 0$ -1.0			mA
Supply Leakage Current	ICC(OFF)	$V_{CC}^{TR} = 6.0V, V_{TN} = V_{CC}^{TR}$		20	μA
Output Leakage Current	IOFF	$V_{OUT} = V_{CC} = 6.0V$, $V_{IN} = V_{CC} = 0.7V$		100	μA
Spark Killer Diode Forward Voltage	V _{F(S)}	$I_{F(S)} = 400 \text{mA}$		3.0	V
Spark Killer Diode Reverse Current	I _{R(S)}	V _{OUT} =0V, V _{CC2} =6.0V		30	Au

Equivalent Circuit



Unit (resistance: Ω)



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