

SANYO

NO.993C

LB1257**8-Unit, Low-Saturation Driver****Applications**

- . 4-phase stepping motor driver of 2 channels.
- . Especially suited for X-Y plotter driver (Meeting the requirements for Alps DPG plotter).
- . General-purpose 8-unit large current & low saturation voltage driver (Relay, LED, lamp, solenoid, etc.).

Features

- . Large current capacity (400mA) and low saturation voltage (0.5V max.).
- . With spark killer diode provided.

Absolute Maximum Ratings at $T_a=25^\circ\text{C}$

			unit
Maximum Supply Voltage	V_{CCmax}	-0.3 to +7.0	V
Output Supply Voltage	V_{OUT}	-0.3 to +10.0	V
Input Supply Voltage	V_{IN}	-0.3 to +7.0	V
Maximum Output Current	I_{OUT}	Per unit	400 mA
Maximum Forward Current	I_{FSM}	Spark killer diode	400 mA
		Pulse width $\leq 35\text{ms}$, duty 5%	
GND Pin Flow-out Current	I_{GND}	Pulse width $\leq 35\text{ms}$	3000 mA
Instantaneous Current Dissipation	I_{ccp}	Pulse width $\leq 35\text{ms}$, duty 5%	3000 mA
Allowable Power Dissipation	P_{dmax}		1.13 W
Operating Temperature	T_{opr}		-20 to +75 $^\circ\text{C}$
Storage Temperature	T_{stg}		-40 to +125 $^\circ\text{C}$

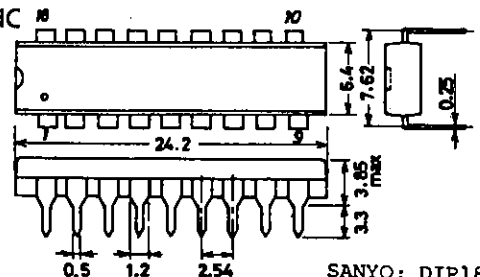
Allowable Operating Conditions at $T_a=25^\circ\text{C}$

			unit
Supply Voltage	V_{CC}	2.3 to 6.0	V
Input "H" Level Voltage	V_{IH}	$I_{OUT}=200\text{mA}$	2.3 to 7.0 V
Input "L" Level Voltage	V_{IL}	$I_{OUT}\leq 100\mu\text{A}$	-0.3 to +0.7 V

Electrical Characteristics at $T_a=25^\circ\text{C}$

			min	typ	max	unit
Output Voltage	V_{OUT1}	$V_{IN}=V_{CC}=2.3\text{V}, I_{OUT}=200\text{mA}$			0.4	V
	V_{OUT2}	$V_{IN}=3.0\text{V}, V_{CC}=3.5\text{V}, I_{OUT}=200\text{mA}$			0.25	V
	V_{OUT3}	$V_{IN}=5.5\text{V}, V_{CC}=6.0\text{V}, V_{OUT}=400\text{mA}$			0.5	V
Output Sustain Voltage	$V_{O(sus)}$	V_{IN} : open, $I_{OUT}=400\text{mA}, t\leq 10\mu\text{s}$	10			V
Output Leak Current	I_{off}	$V_{IN}=0.7\text{V}, V_{CC}=6.0\text{V}, V_{OUT}=6.0\text{V}$			100	μA
Input Current	I_{IN}	$V_{IN}=6.0\text{V}, I_{OUT}=0$			1.0	mA
Spark Killer Diode Reverse Current	$I_{leak(s)}$	$V_{OUT}=0, V_{CC}=6.0\text{V}$			30	μA
Spark Killer Diode Forward Voltage	$V_F(s)$	$I_F(s)=400\text{mA}$			3.0	V

Package Dimensions 3007A-D18IC
(unit: mm)



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