

<b>SANYO</b>	No.2062B	<b>LB1267</b>
<b>2-Channel, High-Current, Low-Saturation Driver Array</b>		

**Features and Functions**

- 2-channel magnet driver
- High current (2.0A max.) and low saturation voltage (1.5V)
- On-chip spark killer diodes

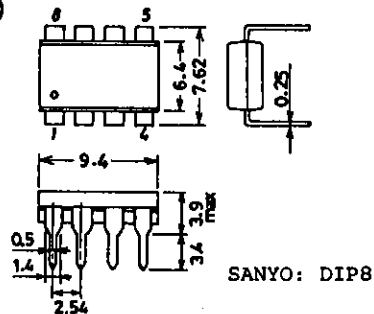
**Absolute Maximum Ratings at Ta = 25°C**

			unit
Maximum Supply Voltage	V <sub>CC</sub> max	8.0	V
Output Supply Voltage	V <sub>OUT</sub>	10.0	V
Input Supply Voltage	V <sub>IN</sub>	12.0	V
Output Current	I <sub>OUT1</sub> t <sub>on</sub> ≤ 50ms, duty = 20%, solenoid drive stage (ch1)	1.0	A
	I <sub>OUT2</sub> t <sub>on</sub> ≤ 50ms, duty = 5%, motor drive stage (ch2)	2.5	A
Spark Killer Diode Forward Current	I <sub>FSM1</sub> t ≤ 5ms, duty = 5%, solenoid drive stage (ch1)	1.0	A
	I <sub>FSM2</sub> t ≤ 5ms, duty = 5%, motor drive stage (ch2)	2.5	A
V <sub>CC</sub> Instantaneous Flow-Out Current	I <sub>CCP</sub> t ≤ 5ms, duty = 5%,	3.0	A
GND Pin Flow-Out Current	I <sub>GND</sub> t ≤ 5ms, duty = 20%,	3.0	A
Allowable Power Dissipation	P <sub>d</sub> max	785	mW
Operating Temperature	T <sub>opr</sub>	-20 to +75	°C
Storage Temperature	T <sub>stg</sub>	-40 to +125	°C

**Allowable Operating Range at Ta = 25°C**

			unit
Supply Voltage	V <sub>CC</sub>	3.0 to 7.0	V
Input 'H'-Level Voltage	V <sub>IH</sub> I <sub>OUT</sub> = 300mA	3.0 to 11.0	V
Input 'L'-Level Voltage	V <sub>IL</sub> I <sub>OUT</sub> ≤ 100µA	-0.3 to +0.7	V

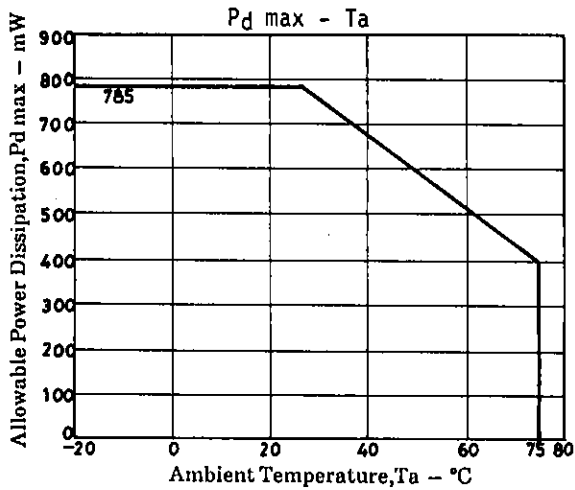
Package Dimensions 3001B-D8IC  
(unit : mm)



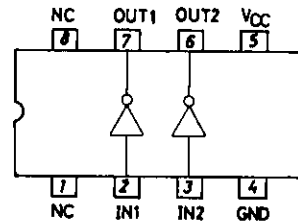
# LB1267

## Electrical Characteristics at Ta = 25°C

			min	typ	max	unit
Output Voltage	V <sub>OH1</sub>	V <sub>IN</sub> = 4.5V, V <sub>CC</sub> = 5.0V, I <sub>OUT</sub> = 500mA (ch1)			0.65	V
	V <sub>OH2</sub>	V <sub>IN</sub> = 6.0V, V <sub>CC</sub> = 7.0V, I <sub>OUT</sub> = 1000mA (ch1)			1.4	V
	V <sub>OH3</sub>	V <sub>IN</sub> = 3.0V, V <sub>CC</sub> = 3.0V, I <sub>OUT</sub> = 300mA (ch2)			0.25	V
	V <sub>OH4</sub>	V <sub>IN</sub> = 4.5V, V <sub>CC</sub> = 5.0V, I <sub>OUT</sub> = 1000mA (ch2)		0.5	0.7	V
	V <sub>OH5</sub>	V <sub>IN</sub> = 6.0V, V <sub>CC</sub> = 7.0V, I <sub>OUT</sub> = 2000mA (ch2)		1.0	1.5	V
Input Current	I <sub>IN1</sub>	V <sub>IN</sub> = 6.0V (ch1)			1.0	mA
	I <sub>IN2</sub>	V <sub>IN</sub> = 6.0V (ch2)			2.0	mA
Power Source + Output Leakage Current	I <sub>OFF</sub>	V <sub>IN</sub> = 0.5V, V <sub>OUT</sub> = V <sub>CC</sub> = 6.0V			30	µA
Spark Killer Diode Forward Voltage	V <sub>F1</sub>	I <sub>F</sub> = 1000mA (ch1)			3.0	V
	V <sub>F2</sub>	I <sub>F</sub> = 2000mA (ch2)			3.0	V
Output Sustain Voltage	V <sub>O(sus)</sub>	I <sub>OUT</sub> = 400mA	10			V

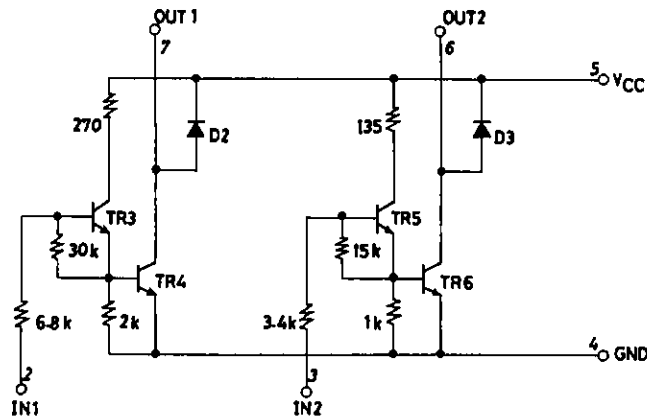


### Pin Assignment



Note) Do not use NC pin.

### Equivalent Circuit



Unit (resistance: Ω)

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