

SANYO

NO.1831C

LB1205**High-Voltage,
High-Current Darlington Driver****Functions and Features**

- 4-unit, high-voltage (65V), high-current (1.5A) Darlington driver
- PNP input type (Low active)
- On-chip spark killer diodes
- On-chip input protection diodes
- Capable of being driven directly from 5V-operated CMOS, TTL

Absolute Maximum Ratings at Ta=25°C

			unit
Maximum Supply Voltage	V_{DDmax}	7.0	V
	V_{CCmax}	62	V
Output Supply Voltage	V_{Omax}	65	V
Input Supply Voltage	V_{INmax} $V_{IN} \geq Gnd$	$V_{DD}-7.0$ to $V_{DD}+10.0$	V
Output Current	I_{Omax}	1.5	A
Spark Killer Diode Forward Current	I_{Fs}	1.5	A
Allowable Power Dissipation	P_{dmax}^*	*1.9	W
Operating Temperature	T_{opr}	-20 to +75	°C
Storage Temperature	T_{stg}	-55 to +150	°C
		2.6	W

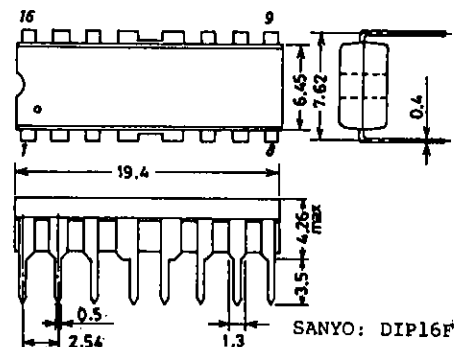
*Mounted on the recommended printed circuit board

Allowable Operating Conditions at Ta=25°C

			unit
Supply Voltage Range	V_{DD}	3.0 to 7.0	V
Input "ON" Level Voltage	V_{INon} $V_{IN} \geq Gnd, I_o=1.0A$	$V_{DD}-7.0$ to $V_{DD}-2.6$	V
Input "OFF" Level Voltage	V_{INoff} $I_o=30\mu A$	$V_{DD}-0.3$ to $V_{DD}+10.0$	V

Electrical Characteristics at Ta=25°C, $V_{DD}=5.0V$

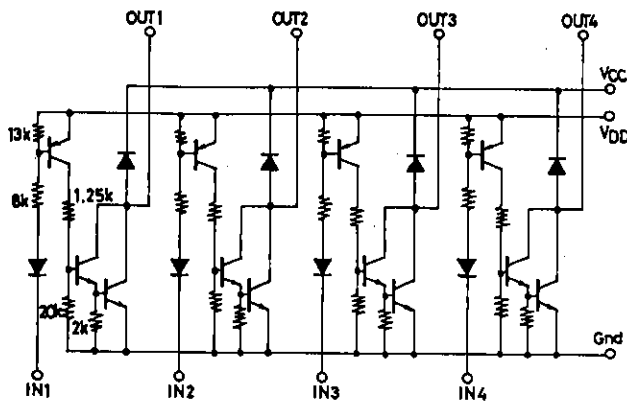
		min	typ	max	unit
Output Saturation Voltage	V_{osat1} $V_{IN}=V_{DD}-5.0V, I_o=0.5A$			1.2	V
	V_{osat2} " $I_o=1.0A$			1.5	V
	V_{osat3} " $I_o=1.5A$			2.0	V
Output Sustain Voltage	V_{osus} $I_o=100mA$	65			V
Input Current	I_{IN} $V_{DD}=7.0V, V_{IN}=V_{DD}-7.0V$			1.0	mA
Spark Killer Diode Forward Voltage	V_{Fs} $I_{Fs}=1.5A$			3.0	V
Spark Killer Diode Reverse Current	I_{Rs} $V_{CC}=62V, V_o=0V$			30	μA

**Package Dimensions 3054A
(unit: mm)****SANYO Electric Co., Ltd. Semiconductor Business Headquarters**

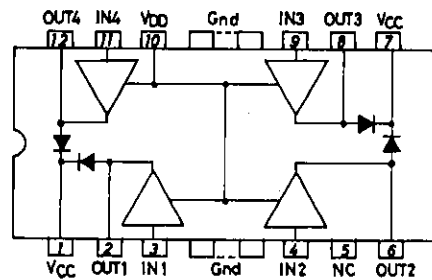
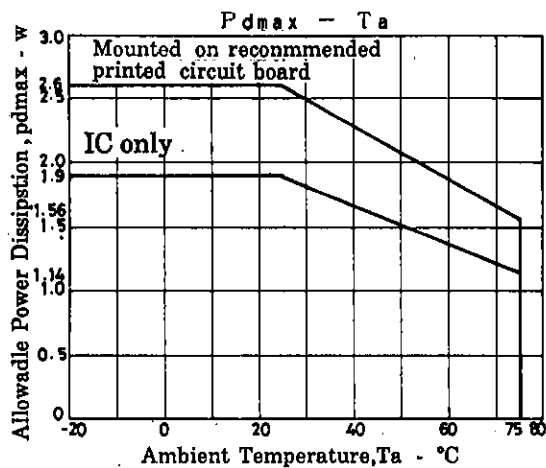
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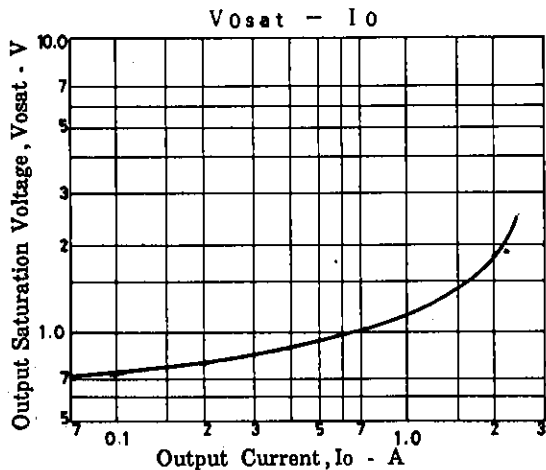
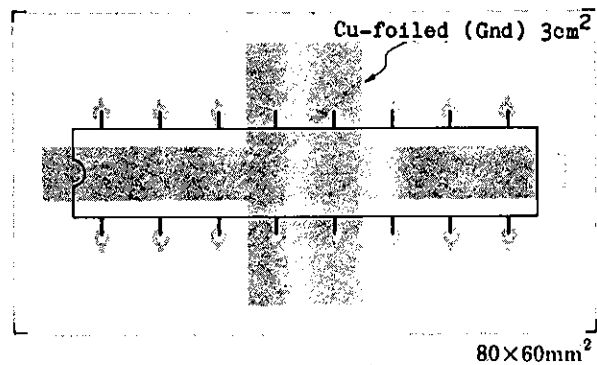
Equivalent Circuit

Unit (resistance : Ω)

Pin Assignment

(Note) V_{CC} (pins 1,9) is shorted internally.

Recommended Printed Circuit Pattern



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