

SANYO

NO.1903D

LB1235**High-Voltage,
High-Current Darlington Driver****Functions and Features**

- 4-channel, high-voltage (65V), high-current (1.5A) Darlington driver
- On-chip spark killer diodes
- Capable of being direct driven with 5V-operated TTL
- NPN input high-active type

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

			unit
Maximum Supply Voltage	$V_{CC\max}$	65	V
Output Supply Voltage	V_{OUT}	65	V
Input Supply Voltage	V_{IN}	15	V
Output Current	I_{OUT}	1.5	A
Spark Killer Diode Forward Current	$I_{F(S)}$	1.5	A
Allowable Power Dissipation	P_{dmax}	1.9*	W
Operating Temperature	T_{opr}	-20 to +75	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^{\circ}\text{C}$

*Mounted on the recommended printed circuit board : 2.6W

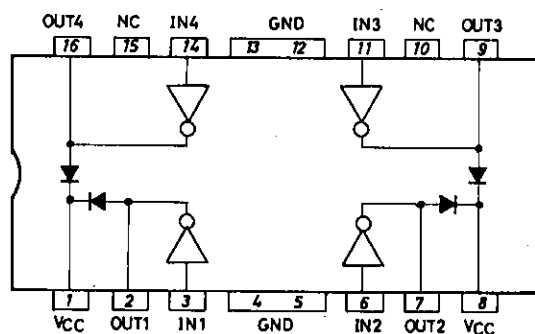
Allowable Operating Conditions at $T_a=25^{\circ}\text{C}$

			unit
Output Supply Voltage	V_{OUT}	65	V
Input "H" Level Voltage	V_{IH}	$I_{OUT}=1.0\text{A}$	2.0 to 15
Input "L" Level Voltage	V_{IL}	$I_{OUT}=30\mu\text{A}$	-0.3 to +0.3

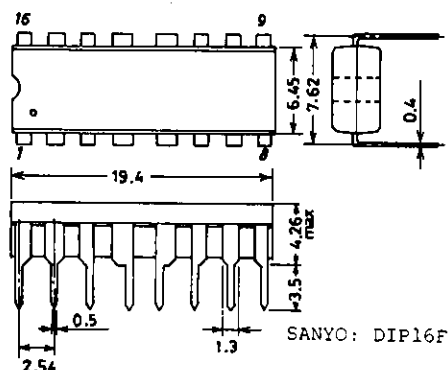
Electrical Characteristics at $T_a=25^{\circ}\text{C}$

			min	typ	max	unit
Output Saturation Voltage	$V_{o(sat1)}$	$V_{IN}=5.0\text{V}, I_{OUT}=0.5\text{A}$			1.2	V
	$V_{o(sat2)}$	$V_{IN}=5.0\text{V}, I_{OUT}=1.0\text{A}$			1.5	V
	$V_{o(sat3)}$	$V_{IN}=5.0\text{V}, I_{OUT}=1.5\text{A}$			2.0	V

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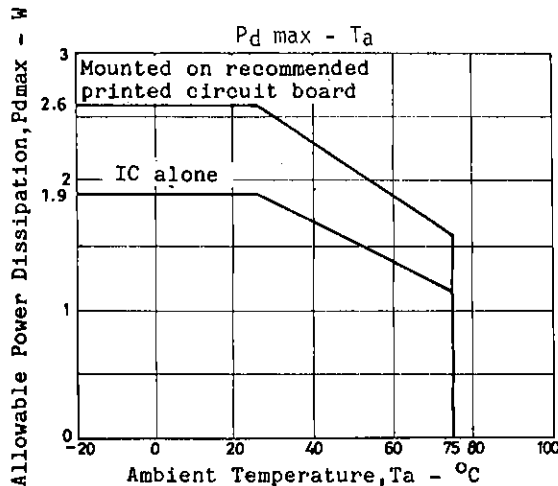
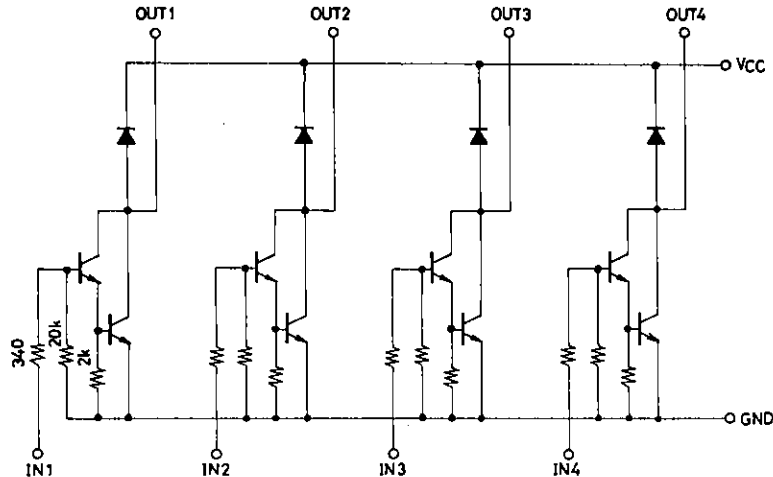
Pin Assignment

(Note) V_{CC} (Pin 1 and 6) is shorted internally.
Do not use NC pin.

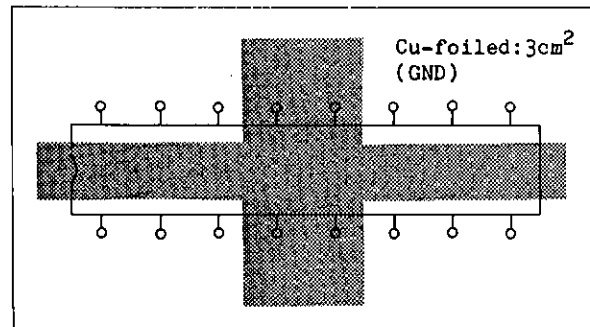
**Package Dimensions 3054A-D16FIC
(unit : mm)**

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			min	typ	max	unit
Output Sustain Voltage	$V_{O(sus)}$	$I_{OUT}=100mA$	65			V
Input Current	I_{IN}	$V_{IN}=5.0V$		11	15	mA
Spark Killer Diode Forward Voltage	$V_F(s)$	$I_F(s)=1.5A$			3.0	V
Spark Killer Diode Reverse Current	$I_R(s)$	$V_{CC}=65V, V_{OUT}=0V$			30	μA

Equivalent CircuitUnit (resistance: Ω)**Recommended Printed Circuit Pattern**

(Bottom View)

Board (80 x 60mm²)

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