



No.3298

LB1730

**High-Voltage, High-Current,
Darlington Driver**

Functions and Features

- Four independent high-voltage (85V), high-current (1.5A) Darlington driver
- On-chip spark killer diode
- Capable of being operated direct by 5V TTL
- NPN input high-active type

Absolute Maximum Ratings at Ta=25°C

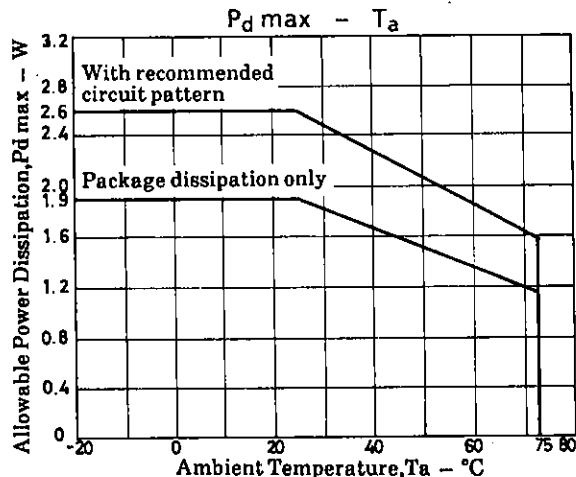
			unit
Maximum Supply Voltage	V _{CC} max	85	V
Applied Output Voltage	V _{OUT}	85	V
Applied Input Voltage	V _{IN}	15	V
Output Current	I _{OUT}	1.5	A
Spark Killer Diode	I _{FS}	1.5	A
Forward Current			
Allowable Power Dissipation	P _d max (With recommended circuit board pattern ; 2.6W)	1.9	W
Operating Temperature	T _{opr}	-20 to +75	°C
Storage Temperature	T _{stg}	-55 to +150	°C

Allowable Operating Conditions at Ta=25°C

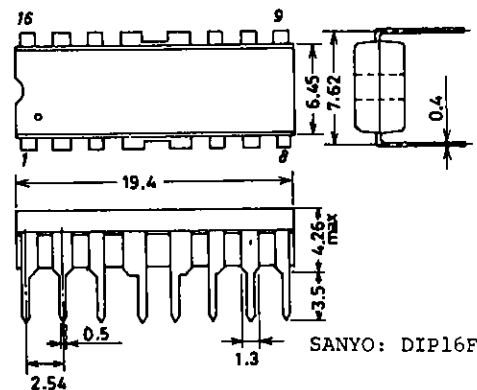
			unit
Applied Output Voltage	V _{OUT}	85	V
Input ON-Level Voltage	V _{IN on} I _{OUT} =1.0A	2.0 to 15	V
Input OFF-Level Voltage	V _{IN off} I _{OUT} ≤30μA	-0.3 to +0.3	V

Electrical Characteristics at Ta=25°C

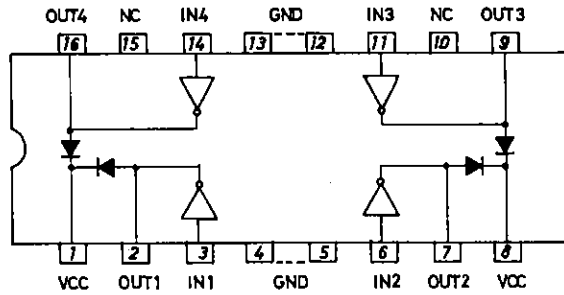
			min	typ	max	unit
Output Saturation Voltage	V _{o sat1}	V _{IN} =5.0V, I _{OUT} =0.5A			1.2	V
	V _{o sat2}	V _{IN} =5.0V, I _{OUT} =1.0A			1.5	V
	V _{o sat3}	V _{IN} =5.0V, I _{OUT} =1.5A			2.0	V
Output Sustain Voltage	V _{o sus}	I _{OUT} =100mA	85			V
Input Current	I _{IN}	V _{IN} =5.0V		11	15	mA
Spark Killer Diode	V _{FS}	I _{FS} =1.5A			3.0	V
Forward Voltage						
Spark Killer Diode	I _{RS}	V _{CC} =85V, V _{OUT} =0V			30	μA
Reverse Current						



Package Dimensions 3054A-D16FIC
(unit : mm)

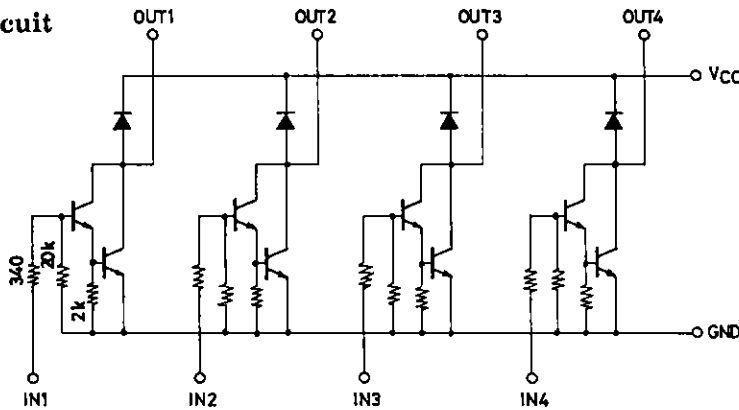


Pin Assingment

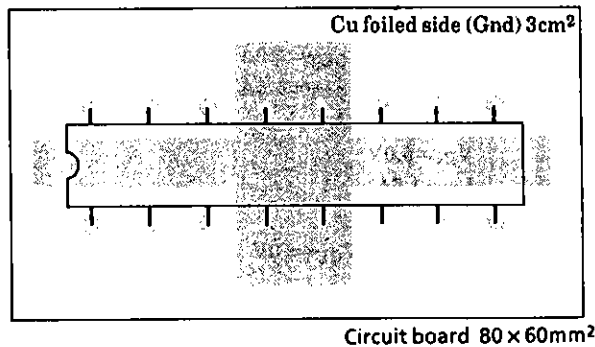


Note) · V_{CC} (pins 1 and 8) are shorted internally
 · Do not use NC pin.

Equivalent Circuit



Sample Printed Pattern Circuit



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