		Monolithic Digital IC
SANYO	NO.1831C	LB1205
		High-Voltage, High-Current Darlington Driver

Functions and Features

Ordering number: EN 1831C

- . 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 ⁰ C		unit
Maximum Supply Voltage V _{DD} max	7.0	v
V _{CC} max	62	V
Output Supply Voltage Vomax	65	v
Input Supply Voltage V _{IN} max	$V_{TN} \ge Gnd$ $V_{DD} = 7.0$ to $V_{DD} = 10.0$	V
Output Current I max	1.5	A
Spark Killer Diode Forward I _{Fs}	1.5	A
Current		
Allowable Power Dissipation Pdmax#	#1.9	W
Operating Temperature Topr	-20 to +75	°C
Storage Temperature Tstg	- 55 to +150	°c
*Mounted on the recommen	nded printed circuit board 2.6	W

Allowable Operating Conditions at Ta=25°C

Supply Voltage Range	V _{DD}	3.0 to 7.0 V	
Input "ON" Level Voltage	V _{TNop} V _{TN} ≤Gnd, Io=1	.0A V_{DD} -7.0 to V_{DD} -2.6 V	
Input "OFF" Level Voltage	VINOIT IOS300A	v_{DD} -0.3 to v_{DD} +10.0 V	

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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, Io=0.5A			1.2	V
	Vosat2	, IO=1.0A			1.5	V
	Vosat3	",Io=1.5A			2.0	v
Output Sustain Voltage	Vosus	Io=100mA	65			v
Input Current	IIN	V _{DD} =7.0V,V _{IN} =V _{DD} -7.0V			1.0	mA
Spark Killer Diode Forward	V _{Fs}	$I_{FS} = 1.5A$			3.0	v
Voltage	rə	FS				
Spark Killer Diode Reverse	I_{Rs}	$V_{CC}=62V$, $Vo=0V$			30	μA
Current	1(3	00				•





unit

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