Monolithic Digital IC



NO.790C

LB1275

7-Unit, Darlington Transistor Array

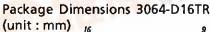
This LB1275, 7-unit Darlington transistor array using NPN transistors, is specially designed for printer driver, lamp or relay driver.

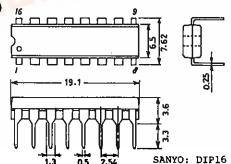
Protector diodes against negative input are used by which it is easy to design drive circuits of a calculator with a printer using indicator or a cash register.

Features

- . 7-unit version (DIP-16) of LB1274 (6-unit DIP-14)
- . Protector diodes against negative input (VIN=-40 to +20 V).
- . Spark killer diodes for inductive load.
- . Suitable for 85mA type printer mechanism ($I_{
 m OUT}$ max=100mADC).

Absolute Maximum Ratings at Ta=25°C, voltage at pin 8=0V.								
	Output Supply Voltage	v_{OUT}		-0.3 to +22	V			
	Input Supply Voltage	v_{IN}		-40 to +20	V			
	Pin 8 Supply Voltage	V_{8P}		-0.3 to $+20$	V			
	Output Flow-in Current	IOUT	per unit	0 to 100	mA			
	Instrantaneous Output Flow-in Current	I _{OP}	per unit,duty=10%, pulse width < 20ms	0 to 150	mΑ			
	Forward Current of Spark Killer Diode	I _F (S)	per diode,duty=10%, pulse width < 20ms	150 to 0	mA			
	Flow-out Current at GND Pin	18		-900 to 0	mA			
	Instantaneous Flow-out Current at Pin 8	18p	duty=10%,pulse width < 20ms	~500 to 0	ΜA			
	Instantaneous Flow-out Current at Pin 9	19p	duty=10%,pulse width <pre></pre>	-900 to 0	mΑ			
	Allowable Power Dissipation	$P_{d}max$		900	mW			
	Operating Temperature	Topr		-20 to +80	°C			
	Storage Temperature	Tstg		-40 to +125	°C			
İ	lowable Operating Conditions at Output Supply Voltage	Ta=25°(,voltage at pin 8=0V	22 V	unit			
	Input 'H' Level Voltage	VIH	output pin current=100mA	+9 to +20	V			
	Input 'L' Level Voltage	VIL	output pin current=100uA	-35 to +1	v			
	Load Inductance	LL	with protector diode	100mH				

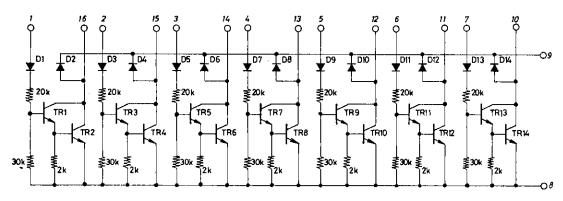




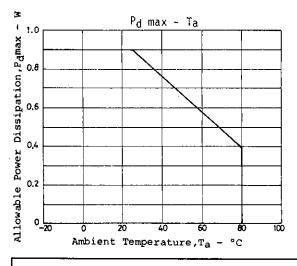


Electrical Characteristics	at Ta=25°C	,voltage at pin 8=0V	min	typ	max	unit
Output Voltage		V _{IN} =9.0V,I _{OUT} =150mA		-11	1.7	V
	VOUT(2)	V_{IN} =9.0V, I_{OUT} =100mA			1.4	· v
Output Sustain Voltage	VouT(s)	VIN=open, applied time	22			V
		<pre>< 10us,IOUT=150mA</pre>				
Output Leak Current	${ t I}_{ t off}$	V _{IN=1.0V} , V _{OUT} =22V			100	uA
Input Current	$I_{IN}(1)$	V _{IN} =18V			1.8	mA
	^I IN(2)	V _{IN} =9V			0.8	mΑ
Output Current	IOUT	$I_{IN}=0.3mA, V_{OUT}=1.4V$	100			mΑ
Input Leak Current	^I leak	V _{IN} =-35V	-10			μA
Leak current at Spark	Ileak(s)	V _{OUT} =0V,pin 8=20V			30	μA
Killer Diode		001				,
Forward Voltage at Spark	Vr(s)	$I_{F(S)}=150mA$			1.7	V
Killer Diode	- ,-,	- (-)				

Equivalent Circuit



Unit (resistance: Ω)



- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.