

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 $_{\mbox{OUT}}\mbox{max=100mADC})$.

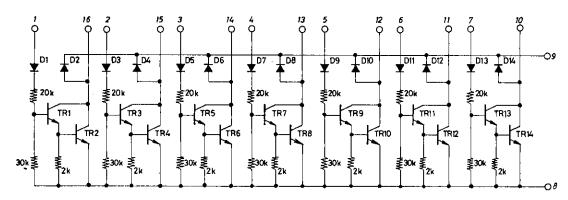
Absolute Maximum Ratings at Ta=25°C, voltage at pin 8=0V.							
Output Supply Voltage	$v_{ m OUT}$		-0.3 to $+22$	V			
Input Supply Voltage	v_{IN}		-40 to +20	V			
Pin 8 Supply Voltage	VgP		-0.3 to $+20$	V			
Output Flow-in Current	TOUT	per unit	0 to 100	mΑ			
Instrantaneous Output Flow-in Current	I _{OP}	per unit,duty=10%, pulse width <20ms	0 to 150	Αm			
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	I8		-900 to 0	mA			
Instantaneous Flow-out Current at Pin 8	18p	duty=10%,pulse width < 20ms	~500 to 0	Αm			
Instantaneous Flow-out Current at Pin 9	19p	duty=10%,pulse width ≤20ms	-900 to 0	mΑ			
Allowable Power Dissipation	P_{d} max		900	mW			
Operating Temperature	Topr		-20 to +80	°C			
Storage Temperature	^T stg		-40 to +125	°C			
Allowable Operating Conditions at		C,voltage at pin 8=0V	22	unit			
Output Supply Voltage Input 'H' Level Voltage	VOUT		22 V				
	v_{IH}	output pin current=100mA	+9 to +20	V			
Input 'L' Level Voltage Load Inductance	V _{IL}	output pin current=100uA	-35 to +1	, V			
Load Inductance	$\mathtt{L}_{\mathtt{L}}$	with protector diode	100mH	mın.			

Package Dimensions 3064-D16TR

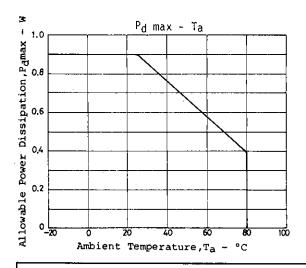
(unit : mm) /6 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 / 19.1 /

Electrical Characteristics	at Ta=25°C	.voltage at pin 8=0V	min	typ	max	unit
Output Voltage		V _{IN} =9.0V,I _{OUT} =150mA		-2.5	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,Iour=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	• .		цA
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)



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