Ordering number: EN 266E

Monolithic Digital IC

NO.266E

LB1287.1288

Darlington Transistor Array

These ICs have circuit configuration of 5-unit Darlington transistor array consisting of NPN transistors and are capable of causing small input current to provide large current drive. They can be advantageously incorporated in equipment because the specially designed 14-pin DIP makes such equipment more compact.

Features

- . Large maximum drive current. . Large allowable power dissipation.
- . Wide range of operating supply voltage.
- . Wide range of operating temperature.
- . Large current-amplification factor.

400mA

1.15W

LB1287 5 to 30V, LB1288 5 to 20V

-20 to +80°C

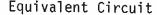
WWW.DZSC.COM 2000 or more

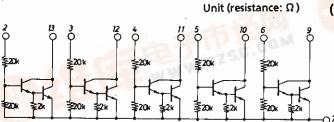
Applications

- . Various types of driver (relay, solenoid, motor, etc.).
- . Display segment or digit driver (LED, lamp).
- . Interface to MOS or bipolar logic IC.
- . Power amplification of pulse (fan-out extension, etc.).

All and a second	Wall and						
Absolute Maximum Ratings at T _a =25°C							
Collector-Base Voltage	VCBO	[LB1287]	30	V			
		[LB1288]	20	V			
Collector-Emitter Voltage	V _{CEO*}	[LB1287]	-0.7 to $+30$	V			
		[LB1288]	-0.7 to $+20$	V			
Allowable Power Dissipation	Pamax		1.15	W			
Input Voltage	Vin	Per unit	-0.7 to +45	V			
Collector Current	I_{C}	Per unit	500	mA			
Junction Temperature	Тj		125	°C			
Operating Temperature	Topr		-20 to +80	°C			
Storage Temperature	Teta		-40 to +125	٥C			

: The substrate is connected to emitter.

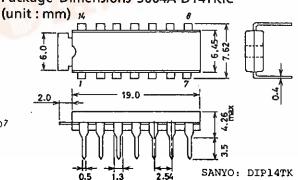




Note 1. Pins 1, 8, 14: NC

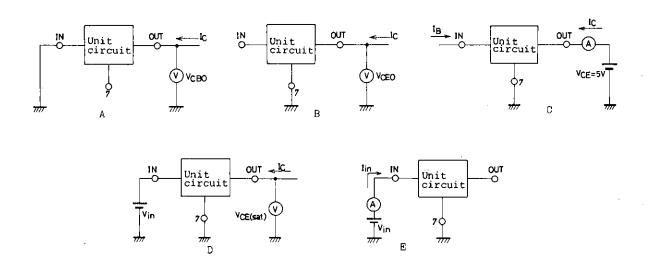
Note 2. The substrate is connected to pin 7.

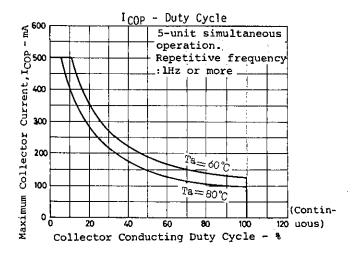
Package Dimensions 3004A-D14TKIC

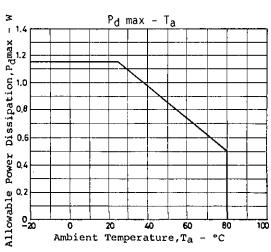


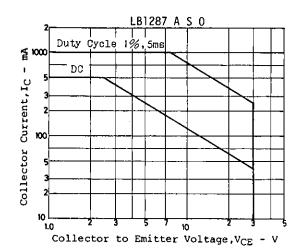
Allowable Operating Cor						unit	:
Supply Voltage	V _{CC} [LB1287]			5 to 30	V	
	[]	LB1288]			5 to 20	Λ	
Collector Current	O-L	urning ON 5 t a=80°C,20% c	ınits simult Nuty	aneously,	280	mA	
		urning ON 5 ι a=80°C 50% d	ınits simult Nuty	aneously,	150	Αm	
	205	urning ON 5 ι a=80°C,DC	ınits simult	- '	100	mA	
Electrical Characterist	tics at Ta=	25°C		Test circuit	min typ	max	unit
Collector-Base Volta	ge V _{CBO}	1 _C =50پیA	[LB1287]	A	30		V
			[LB1288]	A	20		V
Collector-Emitter Vo	ltage V _{CEO}	I _C =100µA	[LB1287]	В	30		V
		•	[LB1288]	В	20		V
DC Current Gain	$\mathtt{h}_{\mathtt{FE}}$	$v_{CE}=5v,i_{CE}$	=200mA	C	2000		
Collector-Emitter Sa		et) $V_{in}=12V_{i}$	C=400mA	D		2.3	v
tion Voltage		$v_{in}=9.5v$	Ic=300mA	D		1.8	V
		v _{in} =7.0v,	I _C =200mA	D		1.4	V
Input Current	$^{\mathtt{I}}\mathtt{in}$	v _{in} =17v	_	E	0.8	3	mΑ

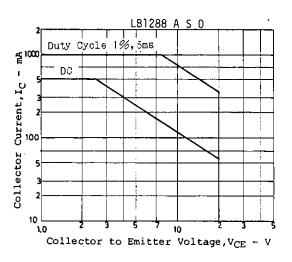
Test Circuit











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