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# ULQ2003ADR2G

Data Sheet

Darlington Transistor Array, Darlington Transistors DARLINGTON TRNS ARRY

Manufacturers	ON Semiconductor, LLC	
Package/Case	SOIC-16	J. Sec.
Product Type	Darlington Transistors	and a second
RoHS	Green	
Lifecycle		Images are for reference only
Please submit RFQ for ULQ2003ADR2G or Email to us: sales@ovaga.com We will contact you in 12 hours.		

# **General Description**

The ULN2001, ULN2002, ULN2003 and ULN 2004 are high-voltage, high-current Darlington arrays each containing seven open collector Darlington pairs with common emitters. Each channel is rated at 500 mA and can withstand peak currents of 600 mA. Suppression diodes are included for inductive load driving and the inputs are pinned opposite the outputs to simplify board layout.

The versions interface to all common logic families: ULN2001 (general purpose, DTL, TTL, PMOS, CMOS); ULN2002 (14 - 25 V PMOS); ULN2003 (5 V TTL, CMOS); ULN2004 (6 - 15 V CMOS, PMOS).

These versatile devices are useful for driving a wide range of loads including solenoids, relay DC motors, LED display filament lamps, thermal printheads and high-power buffers.

The ULN2001A/2002A/2003A and 2004A are supplied in a 16-pin DIP package with a copper leadframe to reduce thermal resistance. They are available also in small outline package (SO-16) as ULN2001D1/2002D1/2003D1/2004D1.

# Features

Seven Darlingtons per package

Output current 500 mA per driver (600 mA peak)

Output voltage 50 V

Integrated suppression diodes for inductive loads

Outputs can be paralleled for higher current

TTL/CMOS/PMOS/DTL compatible inputs

Input pins placed opposite to output pins to simplify layout

# Application

### ONSEMI

### **Related Products**



MC78M05CDTG ON Semiconductor, LLC TO-252-3



NCP603SN330T1G ON Semiconductor, LLC



# TSOP-5

UC3843BVD1R2G

ON Semiconductor, LLC SOP-8



## <u>MC34167TG</u>

ON Semiconductor, LLC TO-220-5









## TLV431CSN1T1G

ON Semiconductor, LLC SOT-23-3

### MC78LC33NTRG

ON Semiconductor, LLC SOT-23-5

## TL431AIDR2G

ON Semiconductor, LLC SOIC-8

#### MAX803SQ293T1G

ON Semiconductor, LLC SC-70-3