



Octal High Voltage, High Current Darlington Transistor Arrays

The eight NPN Darlington connected transistors in this family of arrays are ideally suited for interfacing between low logic level digital circuitry (such as TTL, CMOS or PMOS/NMOS) and the higher current/voltage requirements of lamps, relays, printer hammers or other similar loads for a broad range of computer, industrial, and consumer applications. All devices feature open-collector outputs and free wheeling clamp diodes for transient suppression.

The ULN2803 is designed to be compatible with standard TTL families while the ULN2804 is optimized for 6 to 15 volt high level CMOS or PMOS.

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ and rating apply to any one device in the package, unless otherwise noted.)

Rating	Symbol	Value	Unit
Output Voltage	V_O	50	V
Input Voltage (Except ULN2801)	V_I	30	V
Collector Current – Continuous	I_C	500	mA
Base Current – Continuous	I_B	25	mA
Operating Ambient Temperature Range	T_A	0 to +70	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	–55 to +150	$^\circ\text{C}$
Junction Temperature	T_J	125	$^\circ\text{C}$

$R_{\theta JA} = 55^\circ\text{C/W}$

Do not exceed maximum current limit per driver.

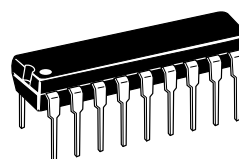
ORDERING INFORMATION

Device	Characteristics		
	Input Compatibility	$V_{CE}(\text{Max})/I_C(\text{Max})$	Operating Temperature Range
ULN2803A	TTL, 5.0 V CMOS	50 V/500 mA	$T_A = 0 \text{ to } +70^\circ\text{C}$
ULN2804A	6 to 15 V CMOS, PMOS		

ULN2803 ULN2804

OCTAL PERIPHERAL DRIVER ARRAYS

SEMICONDUCTOR TECHNICAL DATA



A SUFFIX
PLASTIC PACKAGE
CASE 707

PIN CONNECTIONS

