

SPECIFICATIONS

CIO-DO24DD

CIO-DO48DD

High Current Digital Outputs



**MEASUREMENT
COMPUTING™**

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Power consumption

+5V

CIO-DO24DD
CIO-DO48DD

275 mA typical, 345 mA maximum
425 mA typical, 535 mA maximum

Digital Output

Digital Type

ULN2803 Darlington (open collector)

Configuration

CIO-DO24DD
CIO-DO48DD

3 banks of 8 outputs each
6 banks of 8 outputs each

Number of channels

CIO-DO24DD
CIO-DO48DD

24
48

Output Voltage, V_{CE}

50V maximum

Continuous Current, I_C

500 mA maximum

Output leakage current

$V_O = 50V$, $T_a = +70\text{ }^\circ\text{C}$
 $V_O = 50V$, $T_a = +25\text{ }^\circ\text{C}$

100 μA maximum
50 μA maximum

Collector-Emitter saturation voltage

$i_C = 350\text{ mA}$, $i_B = 500\text{ } \mu\text{A}$
 $i_C = 200\text{ mA}$, $i_B = 350\text{ } \mu\text{A}$
 $i_C = 100\text{ mA}$, $i_B = 250\text{ } \mu\text{A}$

1.1V typical, 1.6V maximum
0.95V typical, 1.3V maximum
0.85V typical, 1.1V maximum

Clamp diode reverse leakage current

$V_R = 50V$, $T_a = +25\text{ }^\circ\text{C}$

50 μA maximum

Clamp diode forward voltage

Diode current = 350 mA

1.5V typical, 2.0V maximum

Environmental

Operating temperature range

0 to 50°C

Storage temperature range

-20 to 70°C

Humidity

0 to 90% non-condensing

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