

# **SPECIFICATIONS**

**CIO-DO24DD**

**CIO-DO48DD**

High Current Digital Outputs



**MEASUREMENT  
COMPUTING™**

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## Power consumption

+5V

CIO-DO24DD

275 mA typical, 345 mA maximum

CIO-DO48DD

425 mA typical, 535 mA maximum

## Digital Output

Digital Type

ULN2803 Darlington (open collector)

Configuration

CIO-DO24DD

3 banks of 8 outputs each

CIO-DO48DD

6 banks of 8 outputs each

Number of channels

CIO-DO24DD

24

CIO-DO48DD

48

Output Voltage,  $V_{CE}$

50V maximum

Continuous Current,  $I_C$

500 mA maximum

Output leakage current

$V_O = 50V$ ,  $T_a = +70^\circ C$

100  $\mu A$  maximum

$V_O = 50V$ ,  $T_a = +25^\circ C$

50  $\mu A$  maximum

Collector-Emitter saturation voltage

$i_C = 350$  mA,  $i_B = 500$   $\mu A$

1.1V typical, 1.6V maximum

$i_C = 200$  mA,  $i_B = 350$   $\mu A$

0.95V typical, 1.3V maximum

$i_C = 100$  mA,  $i_B = 250$   $\mu A$

0.85V typical, 1.1V maximum

Clamp diode reverse leakage current

$V_r = 50V$ ,  $T_a = +25^\circ C$

50  $\mu A$  maximum

Clamp diode forward voltage

Diode current = 350 mA

1.5V typical, 2.0V maximum

## Environmental

Operating temperature range

0 to  $50^\circ C$

Storage temperature range

$-20$  to  $70^\circ C$

Humidity

0 to 90% non-condensing

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