SPECIFICATIONS

CIO-DO24DD
CIO-DO48DD

High Current Digital Outputs

Revision 5, November, 2000

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, Ic	500 mA maximum
Output leakage current	
Vo = 50V, Ta = +70 °C	100 µA maximum
Vo = 50V, Ta = +25 °C	50 µA maximum
Collector-Emitter saturation voltage	
i_C= 350 mA, iB = 500 µA	1.1V typical, 1.6V maximum
i_C= 200 mA, iB = 350 µA	0.95V typical, 1.3V maximum
i_C= 100 mA, iB = 250 µA	0.85V typical, 1.1V maximum
Clamp diode reverse leakage current	
Vr = 50V, Ta = +25 °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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