

1781 Quad Module

SPECIFICATION

DC input quad modules

INPUT	IB5Q	IT5Q	Units
Nominal Input Voltage	24	24	Vdc
Maximum Input Voltage	32	32	Vdc
Minimum Input Voltage	3.3	3.3	Vdc
Input Resistance	1	1	K Ω
Drop Out Current	1.0	1.0	mA dc
Maximum Input Current*	32	32	mA dc
Allowable Off-state Input	1.0	1.0	mA dc
Allowable Off-state Voltage	2.0	2.0	V dc
Maximum Turn-on Time	300	30	μ sec
Maximum Turn-off Time	600	600	μ sec

* @ maximum input voltage

OUTPUT	IB5Q	IT5Q	Units
Nominal Logic Supply Voltage	5	5	V dc
Minimum Logic Voltage	4.5	4.5	V dc
Maximum Logic Voltage	6.0	6.0	V dc
Typical Logic Supply Current*	10	10	mA dc
Maximum Logic Supply Current**	14.5	14.5	mA dc
Max. Logic Supply Leakage Current**	20	20	μ A dc
Maximum Output Voltage	30	30	V dc
Maximum Output Current	50	50	mA dc
Maximum Output Leakage Current**	20	20	μ A dc
Maximum Output Voltage Drop†	200	200	mV dc

* @ nominal voltage

** @ maximum logic voltage

† @ maximum output current

GENERAL SPECIFICATIONS

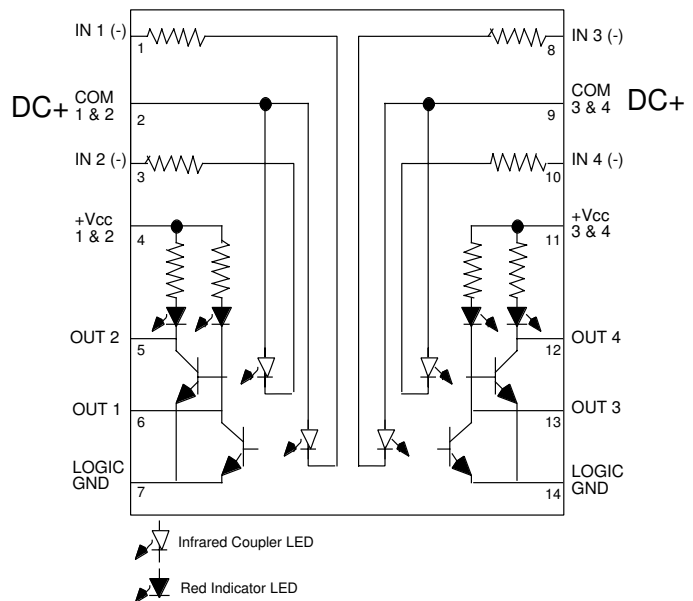
Operating temperature range -30 to +80°C
 Storage temperature range -40 to +100°C
 Isolation 4,000 V rms
 Capacitance input to output 8 pF

* @ nominal input voltage

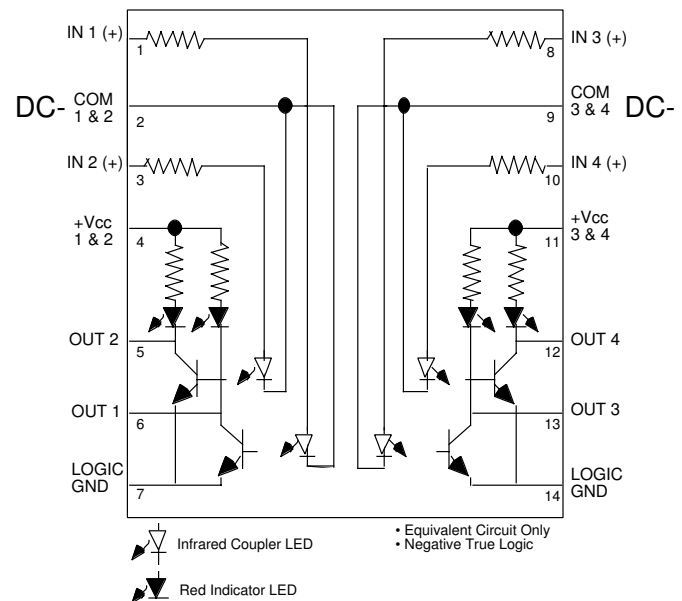
APPLICATION NOTES

- Do not install or remove modules in live (electrically hot) circuits. High voltage may be present.
- Input connections are polarized.
- The controlled voltage on the output pins (out 1,2,3, and 4) cannot exceed 3 V dc higher than +Vcc. This is a limitation of the reverse breakdown voltage of the status indicator LED's.
- An externally located diode (forward biased) can be installed in series with the +Vcc 1 & 2 pin (pin 4) or +Vcc 3 & 4 (pin 11) of the module to extend the output control voltage to a maximum of 30 V dc. An externally located diode (forward biased) can be installed in series with the + terminal of a quad backplane to extend the output control voltage to a maximum of 30 V dc.

1781-IB5Q



1781-IT5Q



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