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INDICATOR DRIVER (ID-1A) MODULE P/N 841580

361480

Functional Description

The Indicator Driver, ID-1A is a simple current switch for applications where speed is not essential as for driving indicator lamps. This module has been designed for use with both the medium speed "A" family and the high speed "B" family.

Medium Speed

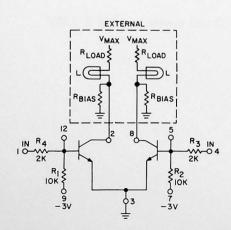
Leave pins 5,7,9 and 12 open. The input resistor will load down the normal up level of the driving block (AI-2A, AOI-2A or AI-1A), however the minimum up level will still be above the threshold level.

High Speed

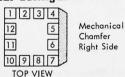
Leave pins 5 and 12 open, connect pins 9 and 7 to -3 volts. The input resistor will load down the normal up level of the driving block (AOI-1B, AOI-2B, AOI-11B or AOI-22B) however the minimum up level will still be above the threshold level.

The driving module can have both an ID module and diode logic circuits, as loads, at the same net.

Schematic



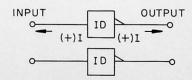
Terminal Configuration



MEDIUM SPEED – Pins 5,7,9 and 12 Leave Open

HIGH SPEED – Pins 5 and 12 Leave Open

Block Diagram



Maximum Ratings

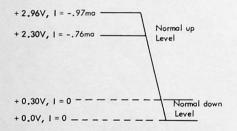
Input Voltage = 6V Output Voltage = 8V I_E = 25 Milliamps

ID-1A Module Functional Tests

TESTS	TERMINAL CONDITIONS													ADDITIONAL LOAD	VARI-	LIMITS		UNITS
	1	2	3	4	5	6	7	8	9	10	11	12	C	REQUIREMENTS	ABLE	MIN	MAX] UNIT
DC ON	+2.3V	v ₀	GND										25	307 11 FROM TERM, 2 TO +6.24V	V ₀		0.3	~
DC ON			GND	•2.3V				v _o					25	307 11 FROM TERM. 8 TO -6.24V	v _o		0.3	٧
DC ON	+2.80V	v ₀	GND						-3.12V				25	178 11 FROM TERM, 2 TO +3,12V	v _o		0.3	v
DC ON			GND	·2.80V			-3.12V	v _o					25	178 11 FROM TERM. 8 TO +3.12V	v ₀		0.3	٧
DC GFF	1,067	v _o	GND						-2.88V				25	178 11 FROM TERM. 2 TO +2.88V	v _o	2,84		٧
DC OFF			GND	1.06V			-2.88V	v _o					25	178 11 FROM TERM. 8 TO +2.88V	v _o	2.84		v

Input Requirements

MEDIUM SPEED



HIGH SPEED

Output Specifications

Output current = - 19ma @ 0.30V (pin 7 and 9 should be left open)

Output current = - 14ma @ 0.30V

Maximum Power Dissipation (per module)

ON OFF

Medium Speed 23.5m watts 0
High Speed 19.0m watts 4.0m watts

Average Normal Power Dissipation =
$$\frac{NOMINAL ON + NOMINAL OFF}{2}$$
 = 10.5m watts

General Wiring Rules (for Printed Circuits 10mil width lines)

Input single line length should be less than 12 inches to prevent excessive noise coupling. Total net length at the input should not exceed 60 inches.