

POTTER & BRUMFIELD RELAYS

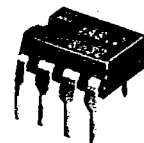
Miniature, auto-insertable IA8 series I/O modules are encapsulated in an 8 pin IC package.

IA8 SERIES

Potter & Brumfield IA8 series input/output (I/O) modules are 8 pin, dual in-line package (DIP) units which require half the space of 16 pin models. These modules provide a means of reliably interfacing microprocessor- or computer-based control systems with external control devices and telecommunications equipment.

The IA8 can act as an AC/DC input module or a DC output module. The output does require logic voltage to operate.

IA8 series I/O modules feature a hybrid thick film design and terminals spaced on a .100" (2.54 mm) grid suitable for automatic insertion on printed circuit boards.



FEATURES

- Mini-DIP Package
- All Solid State AC or DC Input
- High Immunity to False Operation
- 2,500V rms Optical Isolation (Exceeds FCC Part 68 Surge Test)
- 200 mA Output Current Rating
- 60V DC Output Voltage Rating
- 4 to 20V DC Logic Voltage Operation
- UL File E29244
- CSA File LR15734

ENGINEERING DATA

Switch Form: 1 Form A (SPST-NO).

Duty: Continuous.

Isolation: 2,500V rms, 60 Hz. (Pins 1, 2, 3 & 4 shorted; pins 5, 6, 7 & 8 shorted).

Insulation Resistance: 10¹¹ ohms @ 500V DC, minimum.

Moisture Resistance: 10¹¹ ohms @ 500V DC, minimum, per MIL-STD-883C Method 1004.4.

Capacitance: 10 pF maximum (input to output).

Operating Temperature: -30°C to +85°C

Storage Temperature: -40°C to +100°C

Vibration: 100 g, 10 to 2,000 Hz.

Shock: 1,500 g @ 0.5 millisecond, per MIL-STD-883C Method 2002.3.

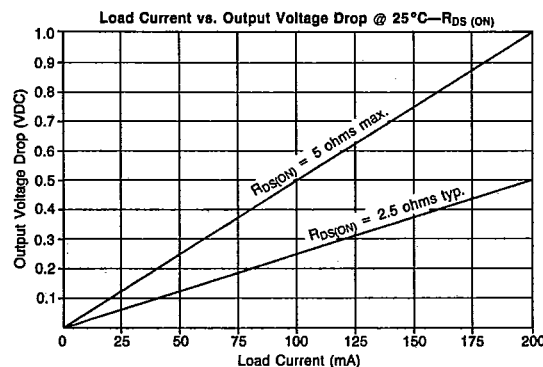
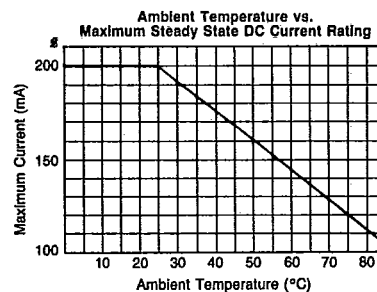
Case: 8 pin DIP style package.

Case Material: Self extinguishing, filled epoxy, 94V1

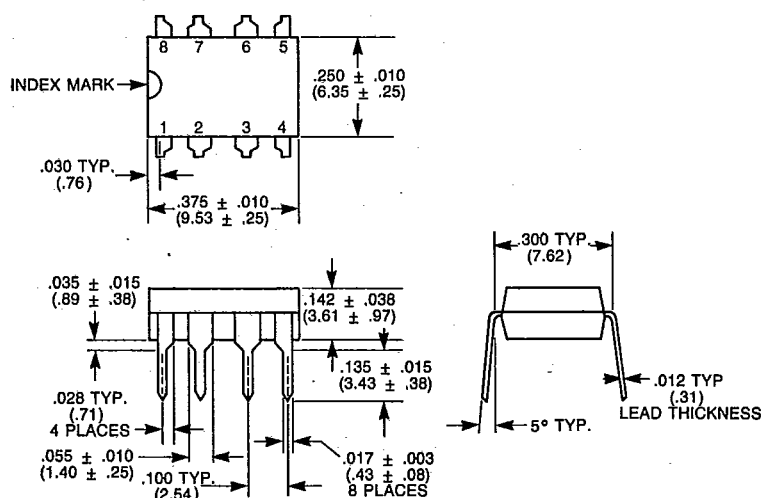
Solderability: 260°C for 10 seconds, maximum.

Approximate Weight: 0.02 oz. (0.5 gram).

ELECTRICAL CHARACTERISTICS

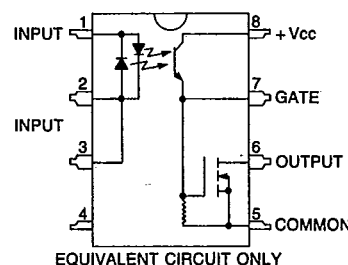


OUTLINE DIMENSIONS



NOTE: Terminal numbers are for reference only. They do not appear on the module.

OPERATING DIAGRAM



DIP I/O MODULE ORDERING INFORMATION

Part Number	Input					Output @ 25°C						Module Function
	Type	Current		Voltage		Type	Current		Voltage			
		Min. mA	Max. mA	Min. V	Max. V		Min. mA	Max. A	Min. V	Max.		
										V	V peak	
*•IA8-11	AC or DC	5	30	—	—	DC	>0	0.2	>0	60	—	AC/DC Input
*•IA8-12	AC or DC	2	30	—	—	DC	>0	0.2	>0	60	—	AC/DC Input

• Denotes UL
* Denotes CSA