

## MITI-3V1 Features and Benefits



### Features

- Ultra-miniature normally open switch with 7.00mm x 1.80mm (0.276" x 0.071") glass envelope
- Capable of switching 170Vdc at up to 10 Watts
- $10^{12}$  Ohms insulation resistance
- Available sensitivity range 6-19 AT
- Surface mount version available

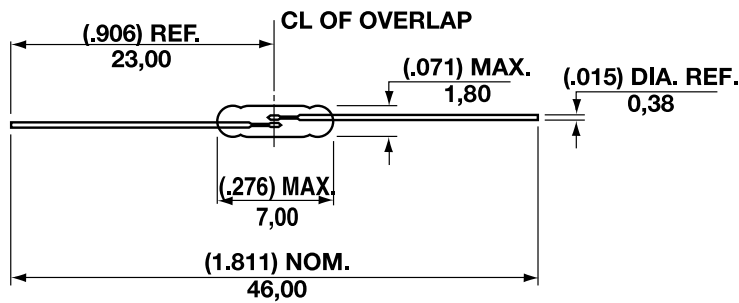
### Benefits

- Hermetically sealed switch contacts are not effected by and have no effect on their external environment
- Low, stable contact resistance
- Very low space requirement
- Zero operating power required for contact closure
- Fit and forget durability

### Applications

- Reed relays
- Security
- Metering
- Mobile phones

## DIMENSIONS (in) mm



Switch Type	MITI-3V1
Contact Form	A

### ELECTRICAL RATINGS

Contact Rating (1)		Watt - max.	10
Voltage	Switching	Vdc - max.	170
	Breakdown	Vdc - min.	175
Current	Switching	A - max.	0.5
	Carry	A - max.	0.5
Resistance	Contact, Initial	$\Omega$ - max.	0.15
	Insulation	$\Omega$ - min.	$10^{12}$
Capacitance	Contact	pF - typ.	0.3
Temperature	Operating	$^{\circ}$ C	-40 to +125
	Storage (5)	$^{\circ}$ C	-65 to +125

### OPERATING CHARACTERISTICS

Operate Time (2)		ms - max.	0.45
Release Time (2)		ms - max.	0.2
Shock	11ms ½ sine wave	G - max.	150
Vibration	50-2000 Hertz	G - max.	30
Resonant Frequency		Hz - typ.	18000

### MAGNETIC CHARACTERISTICS

Pull-In Range (3)		Ampere Turns	6-19
Rating Sensitivity (4)		Ampere Turns	12
Test Coil			L4991

- Notes
- 1) Contact rating-Product of the switching voltage and current should never exceed the wattage rating. Contact Hamlin for additional load/life information.
  - 2) Operate (inc. bounce) /Release Time-per EIA/NARM RS421A, diode suppressed coil.
  - 3) Pull in Range-Contact Hamlin for tolerances available within this range.
  - 4) Rating Sensitivity-The value at which contact ratings and operating characteristics are

- 5) Storage Temperature-Long time exposure at elevated temperature may degrade solderability of the leads.

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