Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!


## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com
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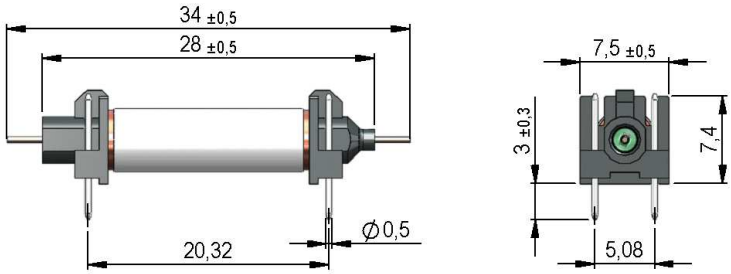
# HI Series
# Reed Relays




- Features: High Insulation Relay Coil/Contact 100 TOhm, High Leakage Distance
- Applications: Test Systems, Control Systems, Medical Equipment, Measurement Equipment & Others
- Markets: Medical, Test and Measurement & Others

**Part-Description:** HI 00-1A00

| Nominal Voltage | Contact QTY | Contact Form | Switch Model |
|---|---|---|---|
| 05, 12 | 1 | A | 66, 75, 85 |

| Customer Options | Switch Model | | | Unit |
|---|---|---|---|---|
| **Contact Data** | **66** | **75** | **85** | |
| **Rated Power (max.)** Any DC combination of V&A not to exceed their individual max.'s | 10 | 10 | 100 | W |
| **Switching Voltage (max.)** DC or peak AC | 200 | 500 | 1,000 | V |
| **Switching Current (max.)** DC or peak AC | 0.5 | 0.5 | 1.0 | A |
| **Carry Current (max.)** DC or peak AC | 1 | 1 | 2.5 | A |
| **Contact Resistance (max.)** @ 0.5V & 50mA | 150 | 200 | 150 | mOhm |
| **Breakdown Voltage (min.)** According to EN60255-5 | 0.25 | 1.0 | 3.0 | kVDC |
| **Operating Time (max.)** Incl. Bounce; Measured with w/ Nominal Voltage | 0.7 | 0.5 | 1.1 | ms |
| **Release Time (max.)** Measured with no Coil Excitation | 0.05 | 0.1 | 0.1 | ms |
| **Insulation Resistance (typ.)** Rh<45%, 100V Test Voltage | $10^{12}$ | $10^{12}$ | $10^{13}$ | Ohm |
| **Capacitance (typ.)** @ 10kHz across open Switch | 0.2 | 0.2 | 0.2 | pF |

| Coil Data | | Coil Voltage (nom.) | Coil Resistance (typ.) | Pull-In Voltage (max.) | Drop-Out Voltage (min.) | Nominal Coil Power (typ.) |
|---|---|---|---|---|---|---|
| Contact Form | Switch Model | | | | | |
| Unit | | VDC | Ohm | VDC | VDC | mW |
| 1A | 66, 75* | 05 | 600 | 3.5 | 0.75 | 42 |
| | | 12 | 3,000 | 8.4 | 1.8 | 48 |
| 1A | 85 | 05 | 140 | 3.5 | 0.75 | 179 |
| | | 12 | 900 | 8.4 | 1.8 | 160 |

The Pull-In / Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C.
* 1A75 only available with Coil Voltage 05

| Environmental Data | | Unit |
|---|---|---|
| **Shock Resistance (max.)** 1/2 sine wave duration 11ms | 50 | g |
| **Vibration Resistance (max.)** | 20 | g |
| **Operating Temperature** | -20 to 70 | °C |
| **Storage Temperature** | -25 to 85 | °C |
| **Soldering Temperature (max.)** 5 sec. max. | 260 | °C |

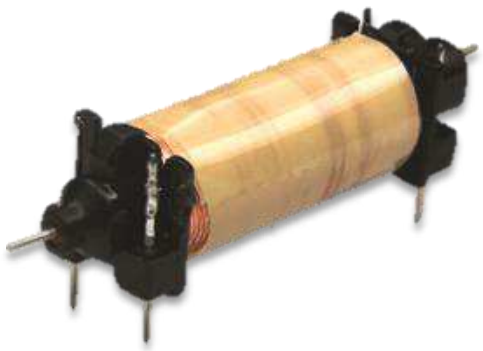
## Handling & Assembly Instructions

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used.
- External magnetic fields needs to be taken into consideration, including a too high packing density. This may influence the relays' electrical characteristics.
- Mechanical shock impacts e.g. dropping the relays may cause immediate or post-installation failure.
- Wave soldering: maximum 260°/5 seconds.
- Reflow soldering: Recommendations given by the soldering paste manufacturer need to be considered as well as the temperature limits of other components/processes.

## Glossary Contact Form

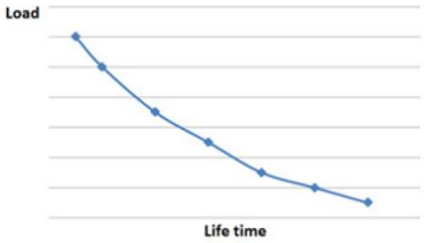
| | | |
|---|---|---|
| **Form A** | NO = Normally Open Contacts<br>SPST = Single Pole Single Throw |  |
| **Form B** | NC = Normally Closed Contacts<br>SPST = Single Pole Single Throw |  |
| **Form C** | Changeover<br>SPDT = Single Pole Double Throw |  |

## HI Reed Relay



## Life Test Data

*Load increase reduces life expectancy of Reed Switches




REACH COMPLIANT

RoHS COMPLIANT

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Version 01
27.01.2015

## Pin Out

Top View
2.54mm [0.10“] pitch grid