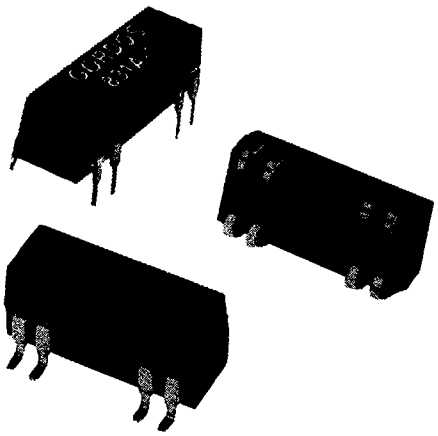
# GORDOS

## REED RELAYS

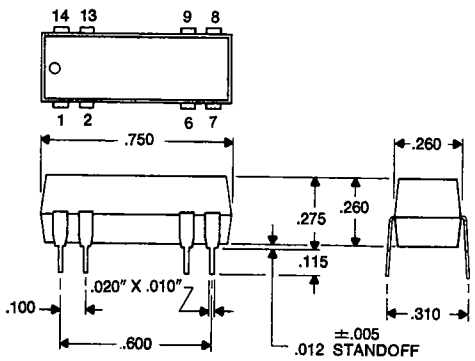
### 83 SERIES MOLDED DIP THRU-HOLE AND SURFACE MOUNT DRY REED RELAYS



**FEATURES:**

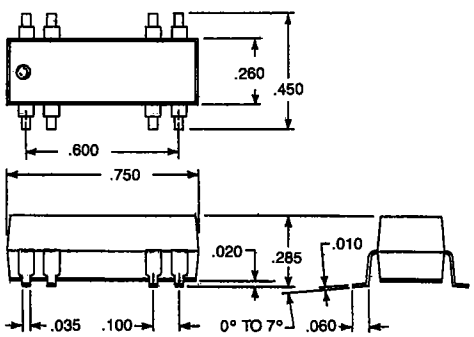
- Choice of Gull or J-Lead Surface Mount or Thru-hole Configuration
- Surface Mount Versions Pass High Reliability Steam Aging Solderability Test
- Surface Mount Versions Compatible with IR Reflow Systems
- 94V-O Flammability Rating
- Form A, 2A, B or C Contacts
- Logic Compatible 5, 12 or 24 Volt Operation
- Available with or without Diodes
- Compatible with Automatic Insertion
- Semiconductor Grade Molding Compounds
- -20° C to 85° C Operating, -20° C to 100° C Storage Temperature Ranges

**THRU-HOLE**

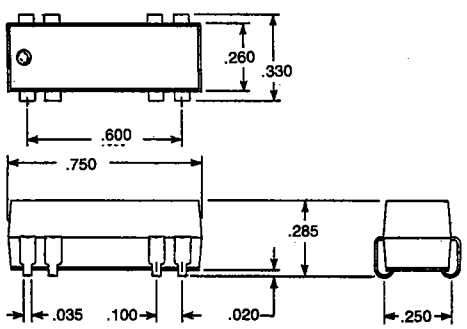



(DIMENSIONAL TOL. ±.010" TYP.)

**THRU-HOLE**




GULL LEAD




"J" LEAD

Products and specifications subject to change without notice.
Consult factory for application assistance.

1000 N. SECOND ST., ROGERS, AR 72756 USA / TEL: 800-643-3500 / 501-636-5000 / FAX: 501-636-2305

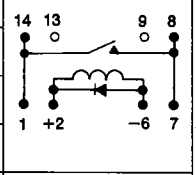
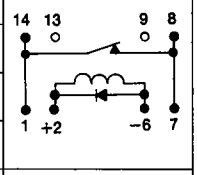
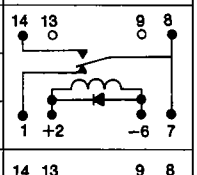
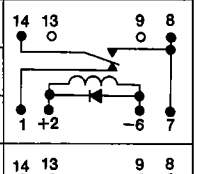
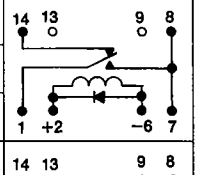
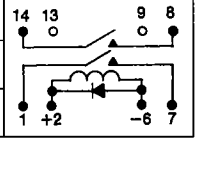
## 83 SERIES MOLDED DIP THRU-HOLE AND SURFACE MOUNT DRY REED RELAYS

| Nominal Coil Voltage DC | 5 | 12 | 24 |
|---|---|---|---|
| Must Operate Voltage DC | 3.8 | 9.0 | 18.0 |
| Must Release Voltage DC | 0.5 | 1.2 | 2.4 |
| Maximum Voltage DC (3) | 10 | 20 | 35 |

| Contact Arrangement | | 1 Form-A | (3) Form-B | Form-C | | |
|---|---|---|---|---|---|---|
| Model Type | | 831A 832A | 831B | 831C | 835C | 836C |
| Max. Switching DC[2] | Watts | 10 | 10 | 3 | | |
| | Volts | 200 | 200 | 30 | | |
| Max. Current DC (amps) | Switch | 0.5 | 0.5 | 0.2 | | |
| | Carry | 1.5 | 1.5 | 0.5 | | |
| Max. Initial Contact Resistance (ohms)[1] | | 0.200 | 0.200 | 0.200 | | |
| Min. Breakdown Voltage DC | Across Contacts | 250 | 250 | 200 | | |
| | Contact to Coil | 750 | 750 | 750 | | |
| Capacitance (typical) pF | Across Contacts | 1.0 | — | 1.5 | | |
| | Contact to Coil | 2.0 | 3.8 | 2.0 | | |
| Insulation Resistance (typical ohms) | | $10^{10}$ | $10^{10}$ | $10^{8}$ | | |
| Operate Time (typical mSec) Including Bounce Except Form-B | | 0.5 | 0.5 | 1.0 | | |
| Release Time (typical mSec) Diode Suppressed | | 0.5 | 0.5 | 1.5 includes Bounce on N.C. Pole | | |

### REED RELAY SELECTION CHART *Shading denotes shortest lead time items.*

SERIES 47 MINI-SIP

| Contact Arrangement | Nominal Coil Voltage (VDC) | Coil Resistance (ohms) ±10% @ 25° C | Suppression Diode | Catalog Number | | | Schematics (Top View) |
|---|---|---|---|---|---|---|---|
| | | | | Thru-Hole | Gull-Lead | J-Lead | |
| 1A SPST N.O. | 5 | 380 | No | 831A-1 | 831A-1G | 831A-1J |  |
| | | | Yes | 831A-2 | 831A-2G | 831A-2J | |
| | | 500 | No | 831A-3 | 831A-3G | 831A-3J | |
| | | | Yes | 831A-4 | 831A-4G | 831A-4J | |
| | 12 | 1000 | No | 831A-5 | 831A-5G | 831A-5J | |
| | | | Yes | 831A-6 | 831A-6G | 831A-6J | |
| | 24 | 1750 | No | 831A-7 | 831A-7G | 831A-7J | |
| | | | Yes | 831A-8 | 831A-8G | 831A-8J | |
| 1B (See Note 3) SPST N.C. | 5 | 200 | No | 831B-1 | 831B-1G | 831B-1J |  |
| | | | Yes | 831B-2 | 831B-2G | 831B-2J | |
| | | 500 | No | 831B-3 | 831B-3G | 831B-3J | |
| | | | Yes | 831B-4 | 831B-4G | 831B-4J | |
| | 12 | 500 | No | 831B-5 | 831B-5G | 831B-5J | |
| | | | Yes | 831B-6 | 831B-6G | 831B-6J | |
| | 24 | 1750 | No | 831B-7 | 831B-7G | 831B-7J | |
| | | | Yes | 831B-8 | 831B-8G | 831B-8J | |
| 1C SPDT | 5 | 200 | No | 831C-1 | 831C-1G | 831C-1J |  |
| | | | Yes | 831C-2 | 831C-2G | 831C-2J | |
| | 12 | 500 | No | 831C-3 | 831C-3G | 831C-3J | |
| | | | Yes | 831C-4 | 831C-4G | 831C-4J | |
| | 24 | 1750 | No | 831C-5 | 831C-5G | 831C-5J | |
| | | | Yes | 831C-6 | 831C-6G | 831C-6J | |
| 1C SPDT | 5 | 200 | No | 835C-1 | 835C-1G | 835C-1J |  |
| | | | Yes | 835C-2 | 835C-2G | 835C-2J | |
| | 12 | 500 | No | 835C-3 | 835C-3G | 835C-3J | |
| | | | Yes | 835C-4 | 835C-4G | 835C-4J | |
| | 24 | 1750 | No | 835C-5 | 835C-5G | 835C-5J | |
| | | | Yes | 835C-6 | 835C-6G | 835C-6J | |
| 1C SPDT | 5 | 200 | No | 836C-1 | 836C-1G | 836C-1J |  |
| | | | Yes | 836C-2 | 836C-2G | 836C-2J | |
| | 12 | 500 | No | 836C-3 | 836C-3G | 836C-3J | |
| | | | Yes | 836C-4 | 836C-4G | 836C-4J | |
| | 24 | 2200 | No | 836C-5 | 836C-5G | 836C-5J | |
| | | | Yes | 836C-6 | 836C-6G | 836C-6J | |
| 2A DPST N.O. | 5 | 200 | No | 832A-1 | 832A-1G | 832A-1J |  |
| | | | Yes | 832A-2 | 832A-2G | 832A-2J | |
| | 12 | 500 | No | 832A-3 | 832A-3G | 832A-3J | |
| | | | Yes | 832A-4 | 832A-4G | 832A-4J | |
| | 24 | 1750 | No | 832A-5 | 832A-5G | 832A-5J | |
| | | | Yes | 832A-6 | 832A-6G | 832A-6J | |



*Notes: All specifications are based on a 25° C ambient temperature.*

1. *Measured with nominal coil voltage applied (except Form B).*
2. *Higher voltages and/or current may be switched with life expectancy reduced.*
3. *Excesive voltage (maximum of 6.5 VDC for 5 VDC model, 15 VDC for 12 VDC model, and 28 VDC for 24 model), may cause contact reclosure on Form B models.*
4. *Consult factory for electrostatic shield and/or magnetic shield requirements.*

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Consult factory for application assistance.