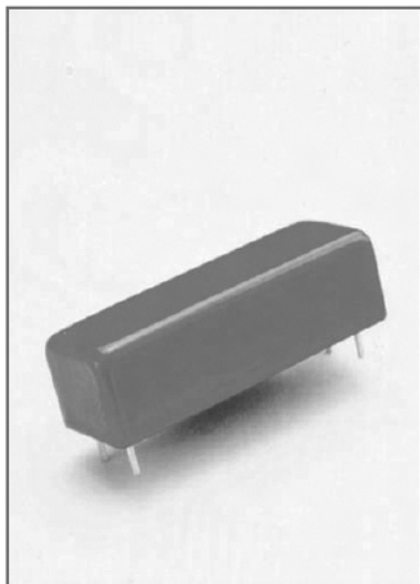


7000 Series/High Reliability Reed Relays

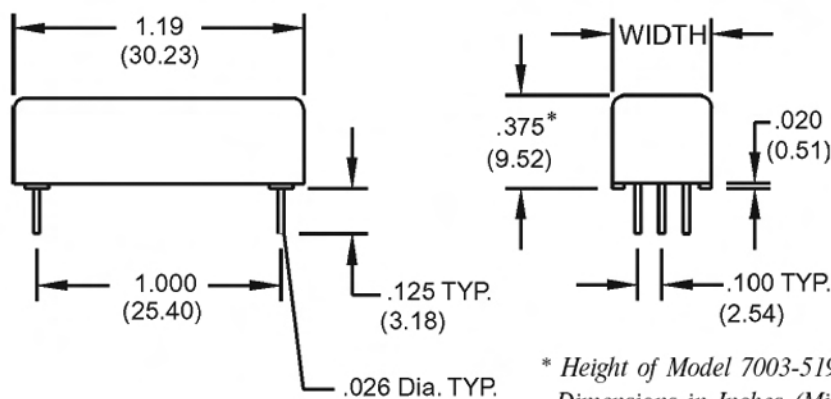


High Reliability Reed Relays

The 7000 Series is ideally suited to the needs of Instrumentation, Data Acquisition, Process Control, Telecommunications and General Purpose requirements. The specification tables allow you to select the appropriate relay for your particular application. These models are specifically designed for high quality and reliability with versatile switching capabilities and contact forms. If your requirements differ, please consult your local representative or Coto's Factory to discuss a custom reed relay.

7000 Series Features

- ◆ Multi-pole contact forms (Form A, B, and C)
- ◆ Wide range of switching capabilities; Low level, High Voltage, Hg wet
- ◆ Hermetically sealed contacts for long life and high reliability
- ◆ High speed switching compared to electromechanical relays
- ◆ Potted in metal shell - Magnetic Shield
- ◆ Optional Electrostatic Shield for reducing capacitive coupling
- ◆ PCB mounting versatility - 1.0" x 0.100" grid
- ◆ Optional coil suppression diode offered to protect coil drivers



WIDTH	A	B	C	D
DIMENSION	.410 (10.41)	.500 (12.70)	.660 (16.76)	.760 (19.30)

Table #1

Ordering Information

Part Number	XXXX-XX-1XXX
Model Number	See Tables (7000 Series)
Coil Voltage	05=5 volts 12=12 volts 24=24 volts
Coil Termination	0=End to End 1=Same End
Diode Options ²	0=No Diode 1=Diode Included
Electrostatic Shield Options	0=No Electrostatic Shield 1=Electrostatic Shield

Note:

Model #7003-5193 represents a complete part number.

7000 Series/High Reliability Reed Relays

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Parameters	Test Conditions	Units	Form A, B, Latch	Form C	Form A ⁴ Hg Wet	Form C ⁴ Hg Wet	Form A High Voltage	Form A Sensor (7003-5193)
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CONTACT RATINGS

Switching Voltage	Max DC/Peak AC Resist.	Volts	200	150	500	500	500	50
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.25	1.0	1.0	0.5	0.05
Carry Current	Max DC/Peak AC Resist.	Amps	2.0	0.5	2.0	2.0	2.0	0.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10	3	50	50	10	3
Life Expectancy-Typical ¹	Signal Level 1.0V, 10mA	x 10 ⁶ Ops.	1000	100	1000	1000	100	100
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.100	0.150	0.075	0.100	0.100	0.200
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.150	0.200	0.100	0.150	0.150	N/A

RELAY**SPECIFICATIONS**

Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹²	10 ¹⁰	10 ¹²	10 ⁹	10 ¹²	10 ¹⁰
Capacitance - Typical	No Shield	pF	1.0	2.0	1.0	2.0	1.0	1.0
Across Open Contacts	Shield Guarding	pF	0.2	1.0	0.2	1.0	0.2	0.2
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	250	200	1000	1000	1200	200
	Contacts to Shield	VDC/peak AC	1000	1000	1000	1000	1000	N/A
	Contacts/Shield to Coil	VDC/peak AC	1500	1500	1500	1500	1500	2850
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	1.0	2.0	2.0	2.0	1.0	0.35
Release Time - Typical	Zener-Diode Suppression ³	msec.	0.1	2.5	1.0	1.5	0.1	0.25

Dot stamped on top of relay
refers to pin #1 location

(See following pages for schematic
diagrams and coil data.)

Notes:

¹ Consult factory for life expectancy at other switching loads.

² Optional coil suppression diode Pin #1 is +.

³ Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

⁴ Hg Content: Form A, 0.04 grams per capsule; Form C, 0.072 grams per capsule.

Environmental Ratings:

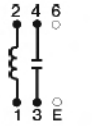
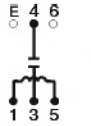
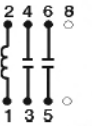
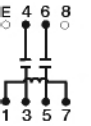
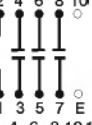
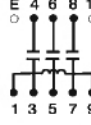
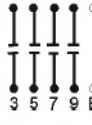
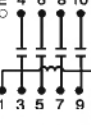
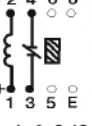

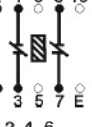
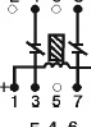
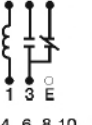
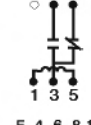
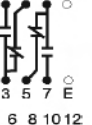







Storage Temp: -35°C to +100°C;

Operating Temp: -20°C to +85°C

Solder Temp: 270°C max; 10 sec. max

The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4% / °C as the ambient temperature varies.

Vibration: 20 G's to 2000 Hz; Shock: 50 G's

Contact Form	Model Number	Nominal Coil Voltage VDC	Must Operate Voltage VDC max.	Must Release Voltage VDC min.	Coil Resistance $\pm 10\%$ @25°C	Width (See Table #1)	Schematic Top View ^{2,8}	
							End to End Coil	Same End Coil
1A	7101	5	3.75	0.4	300	A		
		12	9.0	1.0	1600			
		24	18.0	2.0	4200			
2A	7102	5	3.75	0.4	150	B		
		12	9.0	1.0	1000			
		24	18.0	2.0	3500			
3A	7103	5	3.75	0.4	100	C		
		12	9.0	1.0	800			
		24	18.0	2.0	2400			
4A	7104	5	3.75	0.4	80	D		
		12	9.0	1.0	550			
		24	18.0	2.0	2000			
1B ⁵	7121	5	3.75	0.4	150	B		
		12	9.0	1.0	1000			
		24	18.0	2.0	3500			
2B ⁵	7122	5	3.75	0.4	100	C		
		12	9.0	1.0	800			
		24	18.0	2.0	2400			
1C	7141	5	3.75	0.4	175	A		
		12	9.0	1.0	1100			
		24	18.0	2.0	4200			
2C	7142	5	3.75	0.4	65	C		
		12	9.0	1.0	490			
		24	18.0	2.0	1550			
3C	7143	5	3.75	0.4	55	D		
		12	9.0	1.0	300			
		24	18.0	2.0	1350			
1A Latch ^{5,6}	7150	5	3.75	0.4	550/550	B		
		12	9.0	1.0	1750/1750			
1A1B ^{5,7}	7160	5	3.75	0.4	80	D		
		12	9.0	1.0	550			
		24	18.0	2.0	2000			

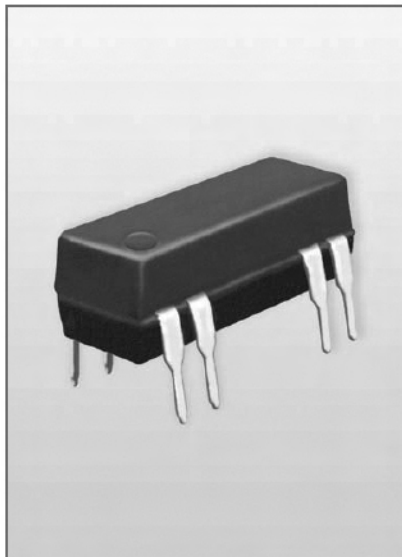
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RELAYS

Contact Form	Model Number	Nominal Coil Voltage VDC	Must Operate Voltage VDC max.	Must Release Voltage VDC min.	Coil Resistance $\pm 10\%$ @25°C	Width (See Table #1)	Schematic Top View ^{2,8}	
							End to End Coil	Same End Coil
1A Hg wet ⁹	7201	5	3.75	0.4	70	A		
		12	9.0	1.0	450			
		24	18.0	2.0	1785			
2A Hg wet ⁹	7202	5	3.75	0.4	60	B		
		12	9.0	1.0	340			
		24	18.0	2.0	1330			
3A Hg wet ⁹	7203	5	3.75	0.4	50	C		
		12	9.0	1.0	300			
		24	18.0	2.0	1200			
4A Hg wet ⁹	7204	5	3.75	0.4	40	D		
		12	9.0	1.0	250			
		24	18.0	2.0	960			
1C Hg wet ⁹	7241	5	3.75	0.4	50	C		
		12	9.0	1.0	300			
		24	18.0	2.0	1200			
1A High Voltage	7301	5	3.75	0.4	175	A		
		12	9.0	1.0	1100			
		24	18.0	2.0	4200			
2A High Voltage	7302	5	3.75	0.4	100	B		
		12	9.0	1.0	640			
		24	18.0	2.0	2450			
3A High Voltage	7303	5	3.75	0.4	65	C		
		12	9.0	1.0	490			
		24	18.0	2.0	1550			
4A High Voltage	7304	5	3.75	0.4	55	D		
		12	9.0	1.0	300			
		24	18.0	2.0	1350			
1A Current Sensor	7003-5193	N/A	13.0 (mA Max)	5.0 (mA Min)	8	C		

Notes:⁵ These relays contain bias magnets. Correct coil polarity must be observed.⁶ Coil suppression diode is recommended for proper operation. Correct coil polarity must be observed.⁷ Break before make not guaranteed.⁸ Dot stamped on top of relay refers to pin #1 location. E-pin indicates Electrostatic shield pin. Unused pins omitted. Pin numbers for reference only.⁹ All models with Hg wet contacts are position sensitive, must be mounted within 30° of vertical plane. See schematic.

8L Series/Spartan DIP Reed Relays

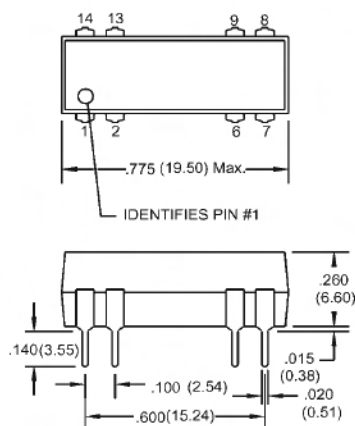


Economy DIP Reed Relays

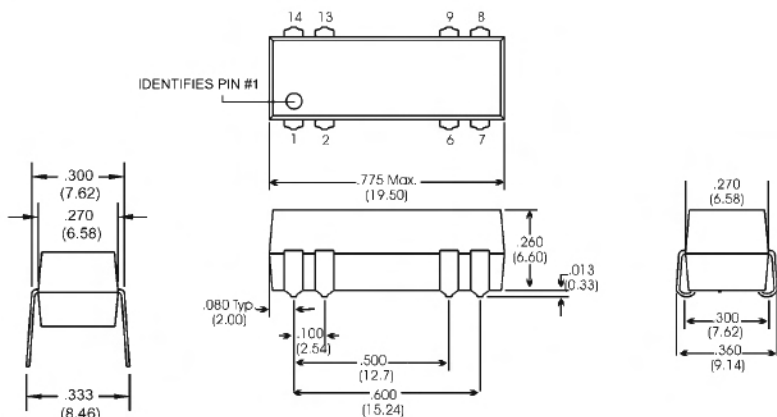
The Coto 8L Spartan Series relays combine Coto quality and economy in the industry standard 14 pin molded DIP package. This series will cross to all competitive DIP packages and is ideal for telecom, security, and other general purpose applications.

8L Series Features

- ◆ Drop-in low cost replacement for industry standard DIP packages
- ◆ Contact forms; 1A, 2A, 1B and 1C available
- ◆ Available coils in 5V, 12V and 24V
- ◆ Molded thermoset body on integral lead frame design
- ◆ Hermetically Sealed Contacts
- ◆ Optional Electrostatic Shield and Coil Suppression Diode
- ◆ UL File # E67117



(For Model #'s 8L01, 8L02, 8L21 & 8L41)



(For Model # 8L61)

Dimensions in Inches (Millimeters)

Ordering Information

Part Number	8LXX-XX-XX ¹	
Model Number	8L01 8L41 8L61	Diode Option ³
Coil Voltage	05=5 volts 12=12 volts 24=24 volts	0=No Diode 1=Diode
		Shield Option ⁴
		0=No Shield 1=Electrostatic Shield

Ordering Information

Part Number	8LXX-XX-XX ¹	
Model Number	8L02 8L21	Diode Option ³
Coil Voltage	05=5 volts 12=12 volts 24=24 volts	0=No Diode 1=Diode
		Shield Option ⁴
		0=No Shield 1=Electrostatic Shield

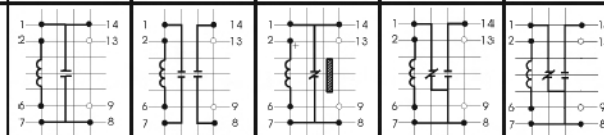
8L Series/Spartan DIP Reed Relays

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RELAYS

Model Number			8L01 ^{2,3,4}			8L02 ^{2,3,4}			8L21 ^{2,3,4}			8L41 ^{2,3,4}			8L61 ^{2,3,4,5}		
Parameters	Test Conditions	Units	1 Form A			2 Form A			1 Form B			1 Form C			1 Form C SMD		
COIL SPECS.																	
Nom. Coil Voltage		VDC	5	12	24	5	12	24	5	12	24	5	12	24	5	12	
Max. Coil Voltage		VDC	6.5	15	32	6.5	15	32	6.5	15	32	6.5	15	32	6.5	15	
Coil Resistance	+/- 10%, 25° C	Ω	500	500	2150	200	500	2000	200	500	2000	200	500	2000	200	500	
Operate Voltage	Must Operate by	VDC - Max.	3.8	9.6	19.2	3.8	9.6	19.2	3.8	9.6	19.2	3.8	9.6	19.2	3.8	9.6	
Release Voltage	Must Release by	VDC - Min.	0.5	1.0	2.0	0.5	1.0	2.0	0.5	1.0	2.0	0.5	1.0	2.0	0.5	1.0	
CONTACT RATINGS																	
Switching Voltage	Max DC/Peak AC Resist.	Volts	200			200			200			100			100		
Switching Current	Max DC/Peak AC Resist.	Amps	0.5			0.5			0.5			0.25			0.25		
Carry Current	Max DC/Peak AC Resist.	Amps	1.0			1.0			1.0			0.5			0.5		
Contact Rating	Max DC/Peak AC Resist.	Watts	10			10			10			3			3		
Life Expectancy-Typical ¹	Signal Level 1.0V,10mA	x 10 ⁶ Ops.	500			500			500			100			100		
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.150			0.150			0.150			0.200			0.200		
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	N/A			N/A			N/A			N/A			0.250		
RELAY SPECIFICATIONS																	
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹⁰			10 ¹⁰			10 ⁹			10 ⁹			10 ⁹		
Capacitance - Typical Across Open Contacts	No Shield	pF	0.5			0.5			0.5			1.5			1.5		
	Shield Floating	pF	1.0			0.5			0.5			1.5			1.5		
	Shield Guarding	pF	0.5			0.2			0.2			1.0			1.0		
Open Contact to Coil	No Shield	pF	1.5			1.5			2.5			1.5			1.5		
	Shield Floating	pF	2.0			2.0			2.0			2.0			2.0		
	Shield Guarding	pF	0.5			0.5			1.5			0.5			0.5		
Contact to Shield	Contacts Open, Shield Floating	pF	2.0			1.5			2.0			2.0			2.0		
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	250			250			250			200			200		
	Contacts to Shield	VDC/peak AC	1500			1500			1500			1500			1500		
	Contacts/Shield to Coil	VDC/peak AC	1500			1500			1500			1500			1500		
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.5			0.5			0.5			1.0			1.0		
Release Time - Typical	Diode Suppression ⁶	msec.	1.0			1.0			1.0			1.5			1.5		
	No Suppression	msec.	0.5			0.5			0.5			1.0			1.0		

Top View:
Dot stamped on top of relay refers to pin #1 location
Grid = .1"x.1" (2.54mm x 2.54mm)

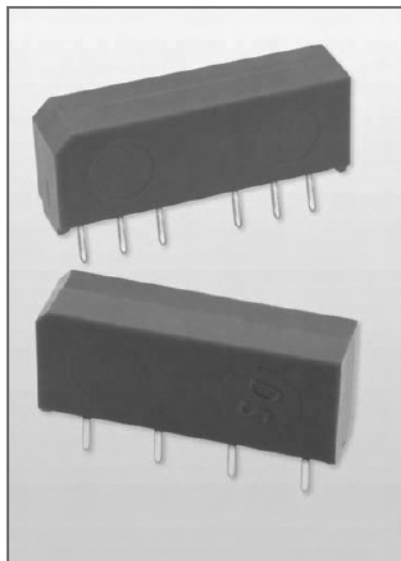
**Notes:**

- ¹ Consult factory for life expectancy at other switching loads.
- ² Molded Depression on top of relay refers to pin #1 location.
- ³ Optional coil suppression diode across pins 2(+) and 6(-).
- ⁴ Optional ES Shield is tied to pin 9.
- ⁵ Surface mount processing temperature: 260°C max for 1 minute dwell time. Temperature measured on leads where lead exits molded package.
- ⁶ Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

Environmental Ratings:

Storage Temp: -35°C to +100°C
 Operating Temp: -20°C to +85°C
 Solder Temp: 270°C max; 10 sec. max
 The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4%/°C as the ambient temperature varies.
 Vibration: 20 G's to 2000 Hz; Shock: 50 G's

9000 Series / Molded SIP Reed Relays



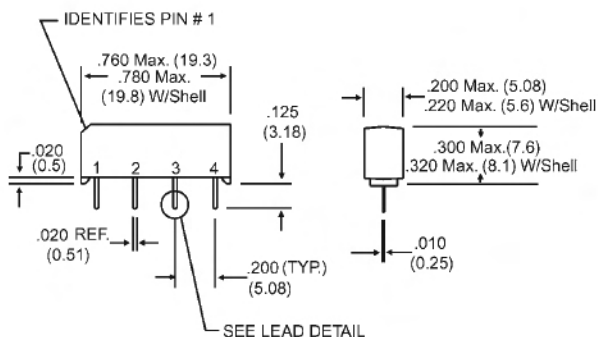
High Performance SIP Reed Relays

The SIP relay is the industry standard when high reliability and consistent performance are desired in a compact package. The 9001 and 9002 are high performance relays ideally suited for Automatic Test Equipment, Instrumentation, RF and Telecommunications applications. The specification tables allow you to select the appropriate relay for your application.

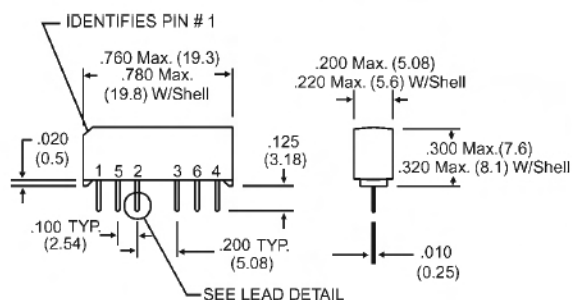
Series Features

- ◆ High Insulation Resistance - $10^{12} \Omega$ minimum ($10^{13} \Omega$ typical)
- ◆ High reliability, hermetically sealed contacts for long life (tested to 1 Billion Operations)
- ◆ High dielectric strength available, consult factory
- ◆ High speed switching compared to electromechanical relays
- ◆ Molded thermoset body on integral lead frame design
- ◆ Coaxial Shield for 50 Ω impedance and switching of fast rise time digital pulses - 9002 only
- ◆ Optional Coil Suppression Diode - protects coil drive circuits
- ◆ UL File # E67117, CSA File # LR 28537

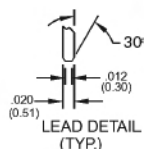
Model 9001



Model 9002



Dimensions in Inches (Millimeters)



Ordering Information

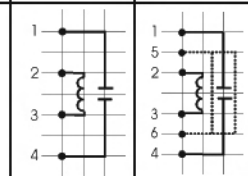
Part Number	90XX-XX-XX
Model Number	9001 9002
Coil Voltage	05=5 volts 12=12 volts
Magnetic Shield Option	0=No Shield 1=Shield
General Options	0=No Diode 1=Diode ² 2=Form B Contacts (Normally Closed ³) (9001 & 9002 Models, 5V only)

9000 Series / Molded SIP Reed Relays

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Model Number			9001 ²	9002 ²
Parameters	Test Conditions	Units	4 Pin SIP	6 Pin SIP
COIL SPECS.				
Nom. Coil Voltage		VDC	5 12	5 12
Max. Coil Voltage		VDC	6.5 15.0	6.5 15.0
Coil Resistance	+/- 10%, 25° C	Ω	500 1000	350 750
Operate Voltage	Must Operate by	VDC - Max.	3.75 9.0	3.75 9.0
Release Voltage	Must Release by	VDC - Min.	0.4 1.0	0.4 1.0
CONTACT RATINGS				
Switching Voltage	Max DC/Peak AC Resist.	Volts	200	200
Switching Current	Max DC/Peak AC Resist.	Amps	0.5	0.5
Carry Current	Max DC/Peak AC Resist.	Amps	1.5	1.5
Contact Rating	Max DC/Peak AC Resist.	Watts	10	10
Life Expectancy-Typical ¹	Signal Level 1.0V, 10.0mA	x 10 ⁶ Ops.	1000	1000
Static Contact Resistance (max. init.)	50mV, 10mA	Ω	0.150	0.150
Dynamic Contact Resistance (max. init.)	0.5V, 50mA at 100 Hz, 1.5 msec	Ω	0.200	0.200
RELAY SPECIFICATIONS				
Insulation Resistance (minimum)	Between all Isolated Pins at 100V, 25°C, 40% RH	Ω	10 ¹²	10 ¹²
Capacitance - Typical	No Shield	pF	0.7	-
Across Open Contacts	Shield Floating	pF	-	0.8
	Shield Guarding	pF	-	0.1
Open Contact to Coil	No Shield	pF	1.4	-
	Shield Floating	pF	-	1.4
	Shield Guarding	pF	-	0.5
Contact to Shield	Contacts Open, Shield Floating	pF	-	1.4
Dielectric Strength (minimum)	Between Contacts	VDC/peak AC	300	300
	Contacts to Shield	VDC/peak AC	-	1500
	Contacts/Shield to Coil	VDC/peak AC	1500	1500
Operate Time - including bounce - Typical	At Nominal Coil Voltage, 30 Hz Square Wave	msec.	0.35	0.35
Release Time - Typical	Zener-Diode Suppression ⁴	msec.	0.1	0.1



Top View:
Dot stamped
on relay refers
to pin #1
Grid = .1"x.1"
(2.54mm x 2.54mm)

Notes:

¹Consult factory for life expectancy at other switching loads.

²Optional diode is connected to pin #2 (+) and pin #3(-). Correct coil polarity must be observed.

³9000 series part numbers designated with Form B contacts, these relays contain bias magnets. Correct coil polarity must be observed.

⁴Consists of 56V Zener diode and 1N4148 diode in series, connected in parallel with coil.

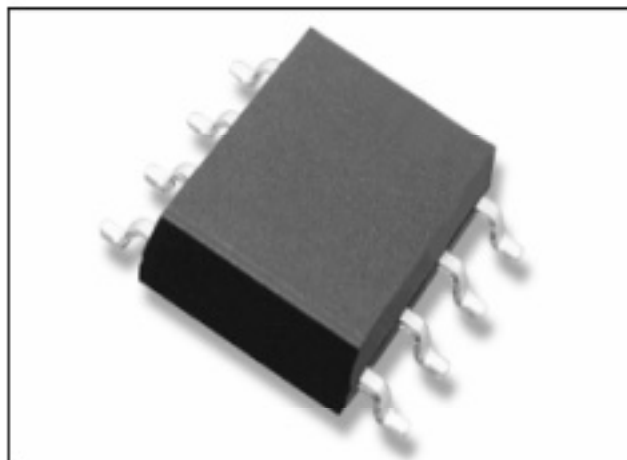
Environmental Ratings:

Storage Temp: -35°C to +100°C; Operating Temp: -20°C to +85°C

Solder Temp: 270°C max; 10 sec. max

The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4% / °C as the ambient temperature varies.

Vibration: 20 G's to 2000 Hz; Shock: 50 G's

G2 Series / Solid State Relays**DESCRIPTION**

The G2 Series relays (SSRs) are solid state devices. No moving parts or mechanical activation is required for operation. Each relay is comprised of a light emitting diode (LED) input and metal oxide semiconductor field effect transistor (MOSFET) output. The input is optically isolated from the output. Operation of the relay is accomplished through the control circuitry on a photo diode array (PDA) semiconductor chip. This PDA chip converts the light energy from the LED into voltage required to operate the MOSFETs. Additional circuitry built into the PDA controls fast operation and current limiting in the output.

FEATURES

- MOSFET Output Design
- Switching Voltage up to 400 VDC/Peak-AC
- Switching Current up to 1Amp DC / 500mA AC
- On Resistance as low as 3Ω
- Form A or B Contact Configuration
- Dual Pole Versions (2 single pole relays in one 8-pin package)
- Fast Turn-off Circuit
- Internal Current Limit Circuit Available

BENEFITS

- AC or DC Switching Capability
- 3750 Vrms I/O Isolation
- Solid State Switching:
 - Long Life
 - High Reliability
- Small size
- Arc-less, bounce-less switching
- Low Input Power Consumption
- Meets agency standards:
 - UL, CSA, VDE, BABT

G2 SERIES GENERAL INFORMATION

The G2 Series of Solid State Relays are designed with the highest level of quality and reliability in mind. Each model is comprehensively tested and meets the strictest of standards as dictated by international safety organizations such as UL, VDE and BABT (See details in the "Agency Approvals" section on page 64 regarding specific information about the G2 Series approvals.). The G2 Series utilizes back-to-back MOSFETs for the output circuit. This enables the relay to switch AC or DC signals. Some models are available with internal current limiting. This feature helps to protect both the relay and any associated circuitry during overcurrent conditions. Long life and reliability are inherent because of the solid state construction. The use of solid state components

eliminates mechanical wear or arcing during switching. These conditions typically lead to the reduced life of mechanical relays.

The G2 Series Solid State Relays are optically isolated switching devices. The relays operate by applying a small DC signal to the input of the device which changes the state of the output. The input is a light emitting diode (LED) and the output is a MOSFET switch. The switches are available in Form-A or Form-B, configurations. (Form-A = Normally Open, Form-B = Normally Closed.) These devices act the same way that a Reed or Electromechanical Relay would. The main advantages of the solid state relay are the extended life expectancy, increased reliability, reduced size, and arc-less switching.

Solid State Relay Selector Chart

7

G2 Series - Solid State Relays

		Contact Form									
		Normally Open					Normally Closed		1 Normally Open & 1 Normally Closed		
Operating Parameters	Switching Voltage (dc/pk-ac)	400					400	250	400	250	
	Switching Current (mA)	150					150	200	150	200	
	On Resistance (Ω)	24	18	35	18	3	8	20	13	24	13
	Current Limit (Typ.; mA)	380	n/a	380	380	n/a	n/a	n/a	380*	380*	
Relay Configuration	Single Channel (1 Input/1 Output)	Model #	G2-1A02 (Fig. #1)	G2-1A03 (Fig. #1)	G2-1A05 (Fig. #1)	G2-1A06 (Fig. #1)	G2-1A07 (Fig. #1)	G2-1B01 (Fig. #1)	G2-1B02 (Fig. #1)		
	2 Channel (1 Input/2 Outputs)	Model #					G2-2A03 (Fig. #2)				
	Dual Channel (2 Inputs/2 Outputs)	Model #	G2-DA01 (Fig. #3)	G2-DA03 (Fig. #3)	G2-DA02 (Fig. #3)	G2-DA06 (Fig. #3)		G2-DB01 (Fig. #3)	G2-DB02 (Fig. #3)	G2-AB01 (Fig. #3)	G2-AB02 (Fig. #3)
	Telecom (1 Relay/1 Current Sensor)	Model #		G2-1T01 (Fig. #4)							

Input to Output Isolation: 3750 Vrms for all models

(*) = Current Limit on Normally Open Contact Only

SCHEMATIC DRAWINGS

Figure #1
Single Channel

Model #
G2-1A02
G2-1A03
G2-1A05
G2-1A06
G2-1A07

G2-1B01
G2-1B02

Top View Schematic

Figure #2
Two Channel

Model #
G2-2A03

Top View Schematic

Figure #3
Dual Channel

Model #
G2-AB01
G2-AB02

G2-DA01
G2-DA02
G2-DA03
G2-DA06

G2-DB01
G2-DB02

Top View Schematic

Figure #4
Telecom Relay

Model #
G2-1T01

Top View Schematic

PACKAGE DRAWINGS

6-Pin DIP
Package Drawing

6-Pin SOP
Package Drawing

8-Pin DIP
Package Drawing

8-Pin SOP
Package Drawing

Ordering Information

For Relays in DIP package shipped in Tubes : G2-xxxx-TT

For Relays in SOP package shipped in Tubes : G2-xxxx-ST

For Relays in SOP package shipped in Tape & Reel : G2-xxxx-SR

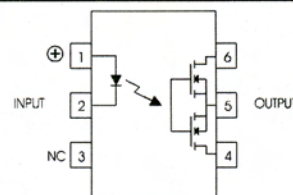
— Specific Model Number as noted above.

G2 Series/ 1 FORM A Solid State Relays

Model Number					G2-1A02	G2-1A03	G2-1A05	G2-1A06	G2-1A07
Parameters	Sym.	Test Conditions	Units		1 Form A	1 Form A	1 Form A	1 Form A	1 Form A
Input Characteristics									
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10mS$	mADC	Max	5.0	5.0	5.0	5.0	5.0
				Typ	2.0	2.0	2.0	2.0	2.0
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	mADC	Min	0.1	0.1	0.1	0.1	0.1
				Typ	1.8	1.8	1.8	1.8	1.8
Recommended Forward Current	I_F		mADC	Min	10	10	10	10	10
				Max	30	30	30	30	30
LED Forward Voltage	V_F	$I_F = 20mA$	VDC	Min	1.1	1.1	1.1	1.1	1.1
				Max	1.4	1.4	1.4	1.4	1.4
Maximum Input Ratings									
LED Forward Current	I_F		mADC	Max	50	50	50	50	50
LED Reverse Voltage Withstand	V_R	$I_R = 10\mu A$	VDC	Max	10	10	10	10	10
Output Characteristics									
Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	400	400	400	250	150
Switching Current: AC Mode (Note 2)	I_L	Pin 4 to pin 6	mA	Max	150	150	120	150	450
Switching Current: DC Mode (Note 2)	I_L	Pins 5(-) to pins 4&6 (+)	mA	Max	250	250	200	250	900
Current Limit: AC Mode (Note 2)	I_{Lnt}	$I_F = 5mA, t = 5mS$	mA	Typ.	380	n/a	380	380	n/a
Current Limit: DC Mode (Note 2)	I_{Lnt}	$I_F = 5mA, t = 5mS$	mA	Typ.	540	n/a	540	760	n/a
On Resistance: AC Mode (Note 2)	R_{On}	$I_F = 5mA, I_L = 50mA$	Ω	Max	24	18	35	18	5
On Resistance: DC Mode (Note 2)	R_{On}	$I_F = 5mA, I_L = 50mA$	Ω	Max	6	4.5	8.75	4.5	1.25
Off State Resistance	R_{Off}	$I_F = 0mA, V_L = 100V$	G Ω	Min	0.5	0.5	0.5	0.5	0.5
				Typ	5000	5000	5000	5000	5000
Off State Leakage	I_{Off}	$I_F = 0mA, V_L = 100V$	nA	Max	200	200	200	200	200
				Typ	0.5	0.5	0.5	0.5	0.5
	I_{Off}	$I_F = 0mA, V_L = Max$	μA	Max	1	1	1	1	1
Turn On Time	T_{On}	$I_F = 5mA, I_L = 50mA$	mS	Max	5.0	5.0	5.0	5.0	5.0*
Turn Off Time	T_{Off}	$I_F = 5mA, I_L = 50mA$	mS	Max	1.0	1.0	1.0	1.0	1.0
Capacitance - Across Output		$I_F = 0mA, V_L = 1V$	pF	Typ	95	95	60	110	170
		$I_F = 0mA, V_L = 50V$	pF	Typ	10	10	7	15	30
Thermal Offset Voltage		$I_F = 5mA$	μV	Typ	0.2	0.2	0.2	0.2	0.2
General Characteristics									
Dielectric Strength - Input to Output		$t = 60sec.$	V RMS	Min	3750	3750	3750	3750	3750
Capacitance - Input to Output			pF	Typ	0.8	0.8	0.8	0.8	0.8
Power Dissipation	P_{Diss}		mW	Max	500	500	500	500	600

* $I_F = 10mA$

Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 61



Notes:

- 1: V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage : Max"
- 2: See "AC Mode and DC Mode of Operation" on Page 67 for further description of AC and DC Mode.
- 3: Specifications subject to change without notice

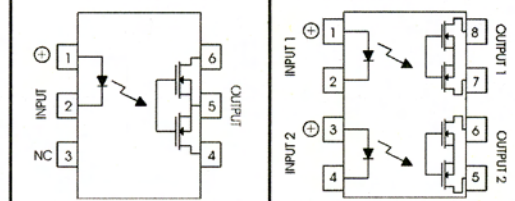
Environmental Ratings

Storage Temp: -40°C to +150°C
Operating Temp: -40°C to +85°C
Solder Temp: 240°C max. for 10 seconds
All electrical parameters specified at 25°C
Vibration: 20G's to 2000Hz
Shock: 50G's

G2 Series/ FORM B Solid State Relays**7****RELAYS**

Model Number					G2-1B01	G2-1B02	G2-DB01	G2-DB02
Parameters	Sym.	Test Conditions	Units		1 Form B	1 Form B	Dual Form B	Dual Form B
Input Characteristics								
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10mS$	mADC	Max	5.0	5.0	5.0	5.0
				Typ	3.0	3.0	3.0	3.0
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	mADC	Min	0.1	0.1	0.1	0.1
				Typ	1.8	1.8	1.8	1.8
Recommended Forward Current	I_F		mADC	Min	10	10	10	10
				Max	30	30	30	30
LED Forward Voltage	V_F	$I_F = 20mA$	VDC	Min	1.1	1.1	1.1	1.1
				Max	1.4	1.4	1.4	1.4
Maximum Input Ratings								
LED Forward Current	I_F		mADC	Max	50	50	50	50
LED Reverse Voltage Withstand	V_R	$I_R = 10mA$	VDC	Max	10	10	10	10
Output Characteristics								
Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	350	250	350	250
Switching Current	I_L	(Note 2)	mA	Max	165	200	170	200
		(Note 3)	mA	Max	330	400	120	140
On Resistance (Note 2)	R_{On}	$I_F = 5mA, I_L = 50mA$	Ω	Max	20	13	20	13
On Resistance (Note 4)	R_{On}	$I_F = 5mA, I_L = 50mA$	Ω	Max	5.0	3.25	n/a	n/a
Off State Resistance	R_{Off}	$I_F = 0mA, V_L = 100V$	G Ω	Min	0.1	0.1	0.1	0.1
				Typ	1.4	1.4	1.4	1.4
Off State Leakage	I_{Off}	$I_F = 0mA, V_L = 100V$	μA	Max	0.07	0.07	0.07	0.07
				Typ	1.0	1.0	1.0	1.0
	I_{Off}	$I_F = 0mA, V_L = Max$	μA	Max	1.0	1.0	1.0	1.0
Turn On Time	T_{On}	$I_F = 5mA, I_L = 50mA$	mS	Max	5.0	5.0	5.0	5.0
Turn Off Time	T_{Off}	$I_F = 5mA, I_L = 50mA$	mS	Max	1.0	1.0	1.0	1.0
Capacitance - Across Output		$I_F = 0mA, V_L = 1V$	pF	Typ	200	170	200	170
		$I_F = 0mA, V_L = 50V$	pF	Typ	20	25	20	25
Thermal Offset Voltage		$I_F = 5mA$	μV	Typ	0.2	0.2	0.2	0.2
General Characteristics								
Dielectric Strength - Input to Output		$t = 60sec.$	V RMS	Min	3750	3750	3750	3750
Capacitance - Input to Output			pF	Typ	0.8	0.8	1.2	1.2
Power Dissipation	P_{Diss}		mW	Max	500	500	600	600

Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 61

**Notes:**

- 1: V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage : Max"
- 2: For G2-1B01 and G2-1B02: Output connected to pins 4 and 6.
For G2-DB01 and G2-DB02: Each channel.
- 3: For G2-1B01 and G2-1B02: Output connected to pin 5(-) and pins 4 & 6(+).
For G2-DB01 and G2-DB02: Both channels switching simultaneously
- 4: For G2-1B01 and G2-1B02: Output connected to pin 5(-) and pins 4 & 6(+).
- 5: Specifications subject to change without notice

Environmental Ratings

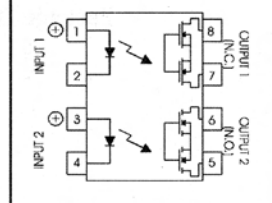
Storage Temp: $-40^{\circ}C$ to $+150^{\circ}C$
 Operating Temp: $-40^{\circ}C$ to $+85^{\circ}C$
 Solder Temp: $240^{\circ}C$ max. for 10 seconds
 All electrical parameters specified at $25^{\circ}C$
 Vibration: 20G's to 2000Hz
 Shock: 50G's

G2 Series/ 1A/1B Solid State Relays

Model Number					G2-AB01	G2-AB02
Parameters	Sym.	Test Conditions	Units		1A/1B	1A/1B
Input Characteristics						
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10mS$	mADC	Max	5.0	5.0
				Typ	2.0	2.0
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	mADC	Min	0.1	0.1
				Typ	1.8	1.8
Recommended Forward Current	I_F		mADC	Min	10	10
				Max	30	30
LED Forward Voltage	V_F	$I_F = 20mA$	VDC	Min	1.1	1.1
				Max	1.4	1.4
Maximum Input Ratings						
LED Forward Current	I_F		mADC	Max	50	50
LED Reverse Voltage Withstand	V_R	$I_R = 10\mu A$	VDC	Max	10	10
Output Characteristics						
Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	400	250
Switching Current	I_L	Each Channel	mA	Max	150	200
		Both Ch.'s Simultaneously	mA	Max	110	150
Current Limit: N.O. Channel only	I_{Lnt}	$I_F = 5mA, t = 5mS$	mA	Typ.	380	380
On Resistance	R_{On}	$I_F = 5mA/0mA, I_L = 50mA$	Ω	Max	24	13
Off State Resistance: N.O. Channel	R_{Off}	$I_F = 0mA, V_L = 100V$	$G\Omega$	Min	0.5	0.5
				Typ	5000	5000
Off State Resistance: N.C. Channel	R_{Off}	$I_F = 5mA, V_L = 100V$	$G\Omega$	Min	0.5	0.5
				Typ	5000	5000
Off State Leakage: N.O. Channel	I_{Off}	$I_F = 0mA, V_L = 100V$	nA	Max	200	200
				Typ	0.17	0.17
	I_{Off}	$I_F = 0mA, V_L = Max$	μA	Max	1	1
Off State Leakage: N.C. Channel	I_{Off}	$I_F = 5mA, V_L = 100V$	μA	Max	0.02	0.02
				Typ	1	1
	I_{Off}	$I_F = 5mA, V_L = Max$	μA	Max	1	1
Turn On Time	T_{On}	$I_F = 5mA, I_L = 50mA$	mS	Max	5.0	5.0
Turn Off Time	T_{Off}	$I_F = 5mA, I_L = 50mA$	mS	Max	1.0	1.0
Thermal Offset Voltage		$I_F = 5mA$	μV	Typ	0.2	0.2
General Characteristics						
Dielectric Strength - Input to Output		$t = 60sec.$	V RMS	Min	3750	3750
Capacitance - Input to Output			pF	Typ	1.2	1.2
Power Dissipation	P_{Diss}		mW	Max	600	600

* $I_F = 10mA$

Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 61

**Notes:**

- 1: V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage Max"
- 2: Specifications subject to change without notice

Environmental Ratings

Storage Temp: $-40^{\circ}C$ to $+150^{\circ}C$
 Operating Temp: $-40^{\circ}C$ to $+85^{\circ}C$
 Solder Temp: $240^{\circ}C$ max. for 10 seconds
 All electrical parameters specified at $25^{\circ}C$
 Vibration: 20G's to 2000Hz
 Shock: 50G's

G2 Series/ 2 Form A Solid State Relays**7****R
E
L
A
Y
S****Model Number****G2-2A03****Parameters****Sym.****Test Conditions****Units****2 Form A****Input Characteristics**

LED Forward Current - Turn on

 I_{Fon} $I_L = 100mA, t = 10mS$

mADC

Max

10

Typ

3.4

LED Forward Current - Turn off

 I_{Foff} $I_L = 0.2mA, V_L = (Note 1)$

mADC

Min

0.1

Typ

3.0

Recommended Forward Current

 I_F

mADC

Min

15

Max

40

LED Forward Voltage

 V_F $I_F = 20mA$

VDC

Min

1.1

Max

1.4

Maximum Input Ratings

LED Forward Current

 I_F

mADC

Max

50

LED Reverse Voltage Withstand

 V_R $I_R = 10\mu A$

VDC

Max

10

Output Characteristics

Switching Voltage

 V_L $I_L = 50mA$

V PEAK

Max

15

Switching Current

 I_L

Each Channel

mA

Max

250

Both Ch.'s Simultaneously

mA

Max

150

Current Limit

 I_{Lim} $I_F = 5mA, t = 5mS$

mA

Min

n/a

Max

n/a

On Resistance

 R_{On} $I_F = 10mA, I_L = 50mA$ Ω

Max

8

Off State Resistance

 R_{Off} $I_F = 0mA, V_L = 15V$ G Ω

Min

0.5

Typ

5000

Off State Leakage

 I_{Off} $I_F = 0mA, V_L = 15V$

nA

Max

200

Typ

0.5

 I_{Off} $I_F = 0mA, V_L = Max$ μA

Max

1

Turn On Time

 T_{On} $I_F = 10mA, I_L = 50mA$

mS

Max

1.5

Turn Off Time

 T_{Off} $I_F = 10mA, I_L = 50mA$

mS

Max

0.5

Capacitance - Across Output

 $I_F = 0mA, V_L = 1V$

pF

Typ

40

 $I_F = 0mA, V_L = 50V$

pF

Typ

-

Thermal Offset Voltage

 $I_F = 10mA$ μV

Typ

0.2

General Characteristics

Dielectric Strength - Input to Output

 $t = 60sec.$

V RMS

Min

3750

Capacitance - Input to Output

pF

Typ

1.2

Power Dissipation

 P_{Diss}

mW

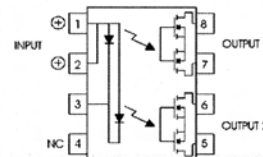
Max

600

Schematic Top View:

Mold mark on top of relay indicates Pin #1

Package Drawings on Page 485

**Notes:**

- 1: V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage : Max"
- 2: Specifications subject to change without notice

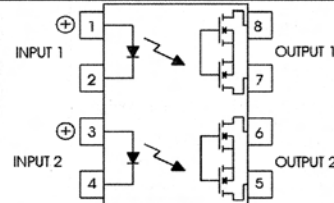
Environmental Ratings

Storage Temp: -40°C to +150°C
 Operating Temp: -40°C to +85°C
 Solder Temp: 240°C max. for 10 seconds
 All electrical parameters specified at 25°C
 Vibration: 20G's to 2000Hz
 Shock: 50G's

G2 Series/ DUAL FORM A Solid State Relays

Model Number					G2-DA01	G2-DA02	G2-DA03	G2-DA06
Parameters	Sym.	Test Conditions	Units		Dual Form A	Dual Form A	Dual Form A	Dual Form A
Input Characteristics								
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10mS$	mADC	Max	5.0	5.0	5.0	5.0
				Typ	2.0	2.0	2.0	2.0
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	mADC	Min	0.1	0.1	0.1	0.1
				Typ	1.8	1.8	1.8	1.8
Recommended Forward Current	I_F		mADC	Min	10	10	10	10
				Max	30	30	30	30
LED Forward Voltage	V_F	$I_F = 20mA$	VDC	Min	1.1	1.1	1.1	1.1
				Max	1.4	1.4	1.4	1.4
Maximum Input Ratings								
LED Forward Current	I_F		mADC	Max	50	50	50	50
LED Reverse Voltage Withstand	V_R	$I_R = 10\mu A$	VDC	Max	10	10	10	10
Output Characteristics								
Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	400	400	400	250
Switching Current	I_L	Each Channel	mA	Max	150	120	180	180
		Both Ch.'s Simultaneously	mA	Max	110	70	125	125
Current Limit	I_{Lmt}	$I_F = 5mA, t = 5mS$	mA	Typ.	380	380	n/a	380
On Resistance	R_{On}	$I_F = 5mA, I_L = 50mA$	Ω	Max	24	35	18	18
Off State Resistance	R_{Off}	$I_F = 0mA, V_L = 100V$	G Ω	Min	0.5	0.5	0.5	0.5
				Typ	5000	5000	5000	5000
Off State Leakage	I_{Off}	$I_F = 0mA, V_L = 100V$	nA	Max	200	200	200	200
				Typ	0.5	0.5	0.5	0.5
	I_{Off}	$I_F = 0mA, V_L = Max$	μA	Max	1	1	1	1
Turn On Time	T_{On}	$I_F = 5mA, I_L = 50mA$	mS	Max	5.0	5.0	5.0	5.0
Turn Off Time	T_{Off}	$I_F = 5mA, I_L = 50mA$	mS	Max	1.0	1.0	1.0	1.0
Capacitance - Across Output		$I_F = 0mA, V_L = 1V$	pF	Typ	95	60	95	110
		$I_F = 0mA, V_L = 50V$	pF	Typ	10	7	10	15
Thermal Offset Voltage		$I_F = 5mA$	μV	Typ	0.2	0.2	0.2	0.2
General Characteristics								
Dielectric Strength - Input to Output		$t = 60sec.$	V RMS	Min	3750	3750	3750	3750
Capacitance - Input to Output			pF	Typ	1.2	1.2	1.2	1.2
Power Dissipation	P_{Diss}		mW	Max	600	600	600	600

Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 485

**Notes:**

- 1: V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage : Max"
- 2: Specifications subject to change without notice

Environmental Ratings

Storage Temp: $-40^{\circ}C$ to $+150^{\circ}C$
 Operating Temp: $-40^{\circ}C$ to $+85^{\circ}C$
 Solder Temp: $240^{\circ}C$ max. for 10 seconds
 All electrical parameters specified at $25^{\circ}C$
 Vibration: 20G's to 2000Hz
 Shock: 50G's

G2 Series/ INTEGRATED TELECOM Solid State Relays**7****RELAYS****Model Number****G2-1T01****Relay Specifications**

Sym.

Test Conditions

Units

Telecom

Input Characteristics

LED Forward Current - Turn on

 I_{Fon} $I_L = 100mA, t = 10mS$

mADC

Max

5.0

LED Forward Current - Turn off

 I_{Foff} $I_L = 0.2mA, V_L = (Note 1)$ μA

Min

0.1

Recommended Forward Current

 I_F

mADC

Min

10

LED Forward Voltage

 V_F $I_F = 20mA$

VDC

Min

1.1

Max

1.4

Maximum Input Ratings

LED Forward Current

 I_F

mADC

Max

50

LED Reverse Voltage Withstand

 V_R $I_R = 10\mu A$

VDC

Max

10

Output Characteristics

Switching Voltage

 V_L $I_L = 50mA$

V PEAK

Max

400

Switching Current

 I_L

mA

Max

150

On Resistance

 R_{On} $I_F = 5mA, I_L = 50mA$ Ω

Max

18

Off State Resistance

 R_{Off} $I_F = 0mA, V_L = 100V$ $G\Omega$

Min

0.5

Typ

5000

Off State Leakage

 I_{Off} $I_F = 0mA, V_L = 100V$

nA

Max

200

Typ

0.5

Max

1

Turn On Time

 T_{On} $I_F = 5mA, I_L = 50mA$

mS

Max

5.0

Turn Off Time

 T_{Off} $I_F = 5mA, I_L = 50mA$

mS

Max

1.0

Capacitance - Across Output

 $I_F = 0mA, V_L = 1V$

pF

Typ

95

Thermal Offset Voltage

 $I_F = 0mA, V_L = 50V$

pF

Typ

10

 $I_F = 5mA$ μV

Typ

0.2

General Characteristics

Dielectric Strength - Input to Output

 $t = 60sec.$

V RMS

Min

3750

Capacitance - Input to Output

pF

Typ

0.8

Power Dissipation

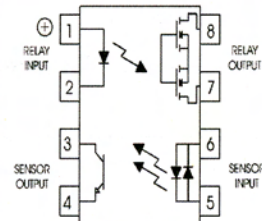
 P_{Dis}

mW

Max

600

Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 485

**Notes:**

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 Vibration: 20G's to 2000Hz
 Shock: 50G's

G2 Series/ INTEGRATED TELECOM Solid State Relays**Model Number****G2-1T01****Optocoupler Specifications****Input Characteristics**

LED Forward Current to Operate

Input Characteristics

LED Forward Voltage Drop

LED Current; Detector Off

LED Continuous Forward Current

Output Characteristics (pins 3 & 4)

Saturation Voltage

Collector-Emitter Breakdown Voltage

Dark Current Leakage

Trickle Current Leakage

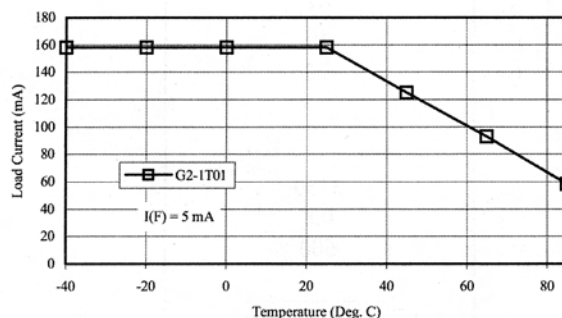
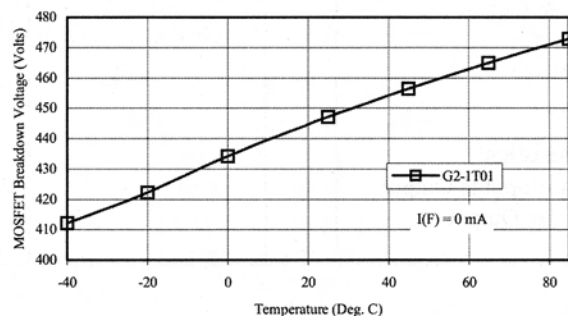
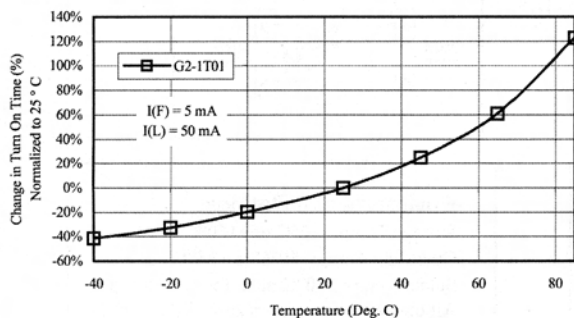
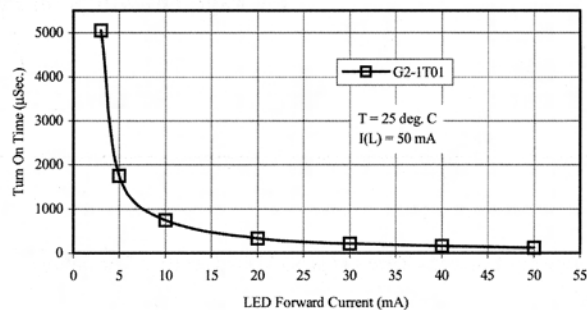
General Characteristics

DC Current Transfer Ratio

Phototransistor Power Dissipation

Dielectric Strength - Input to Output

Sym.	Test Conditions	Units	Telecom
I_{Fon}	No shunt resistor	mA	Max 6.0 Typ 2.0
V_F	$I_F = 10mA$	VDC	Min 0.9 Typ 1.5
I_F		μA	Min 5 Typ 25
		mA	Max 50
V_L	$I_F = 16mA, I_C = 2mA$	V	Typ 0.8
BV_{CEO}		V	Min 30
I_{CEO}	$I_F = 0mA, V_{CE} = 5V$	nA	Typ 10 Max 100
I_{CEO}	$I_F = 5mA, V_{CE} = 5V$	μA	Max 1.0
CTR	$I_F = 6mA, V_{CE} = 0.5V$	%	Min 33 Typ 165
P_{Diss}		mW	Max 150
	$t = 60sec.$	V RMS	Min 3750

**A. Load Current vs. Ambient Temperature****B. Output MOSFET BV vs. Ambient Temperature****C. On Time vs. Ambient Temperature****D. Turn On Time vs. LED Forward Current**

7

RELAYS

The drawing includes the following dimensions and labels:

- Top View:**
 - Overall width: 0.378 ± 0.008
 - Overall height: 0.252 ± 0.008
 - Pin pitch (center-to-center): 0.059
 - Pin width: 0.059
 - Distance from top edge to pin center line: 0.059
 - Distance from bottom edge to pin center line: 0.059
 - Label: G2-XXXX YRWK
 - Label: PART #
 - Label: EIA DATE CODE
- Side View:**
 - Overall height: 0.142 ± 0.008
 - Pin height: 0.100 Min.
 - Pin width: 0.020
 - Distance between pins: 0.100
 - Label: 4.0° Typ
- End View:**
 - Overall width: 0.300 ± 0.010
 - Pin width: 0.010
 - Distance between pins: 0.010
 - Overall width at base: 0.350 ± 0.025

Technical drawing of a G2-XXXX YRWK component. The drawing includes three views: a top view, a side view, and a detail view of the mounting tab.

Top View Dimensions:

- Overall width: 0.370 ± 0.010
- Width of central area: 0.250 ± 0.010
- Radius of corner: $.025 R$
- Distance from bottom edge to mounting holes: 0.050
- Distance between mounting holes: 0.100
- Distance from side edge to mounting holes: 0.087 Max.
- Distance from side edge to central area: 0.016
- Distance from side edge to mounting holes: 0.020

Side View Dimensions:

- Overall height: 0.084 ± 0.010
- Height of central area: 0.005
- Height of mounting tab: 0.010

Detail View Dimensions:

- Overall width: 0.370 ± 0.005
- Width of central area: 0.300 ± 0.010
- Radius of corner: 6.0° Max.

Labels:

- PART #
- G2-XXXX
- YRWK
- EIA DATE CODE
- 7.0" Typ.

PART #
 G2-XXXX
 YRWK
 EIA DATE CODE
 U+22050.047
 .006 DP
 0.378 \pm 0.008
 0.252 \pm 0.008
 0.059
 4.0° Typ.
 0.050
 0.142 \pm 0.008
 0.020
 0.100 Min.
 0.100
 0.020
 0.300 \pm 0.010
 0.010
 0.010
 0.350 \pm 0.025

8-Pin Surface Mount Package

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