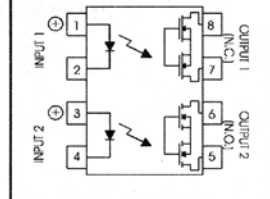


G2 Series/ **1A/1B** Solid State Relays

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