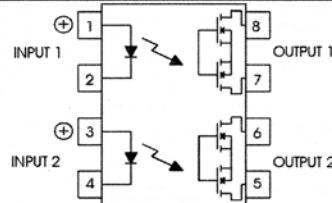


G2 Series/ **DUAL FORM A** Solid State Relays

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}	$I_F = 0mA, V_L = 100V$	$G\Omega$	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:

- V_L for LED Forward Current - Turn off is 50 Volts less than "Switching Voltage : Max"
- 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