

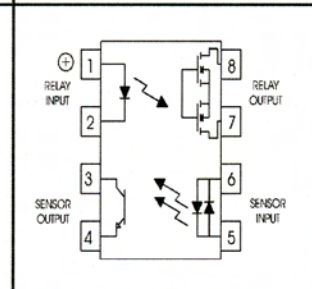
G2 Series / INTEGRATED TELECOM Solid State Relays

7

RELAYS

Model Number	Sym.	Test Conditions	Units		G2-1T01
Relay Specifications					Telecom
Input Characteristics					
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10mS$	mADC	Max	5.0
				Typ	1.5
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	μA	Min	0.1
				Typ	1.4
Recommended Forward Current	I_F		mADC	Min	10
				Max	30
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
		$I_F = 0mA, V_L = Max$	μA	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
		$I_F = 0mA, V_L = 50V$	pF	Typ	10
Thermal Offset Voltage		$I_F = 5mA$	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:

- 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