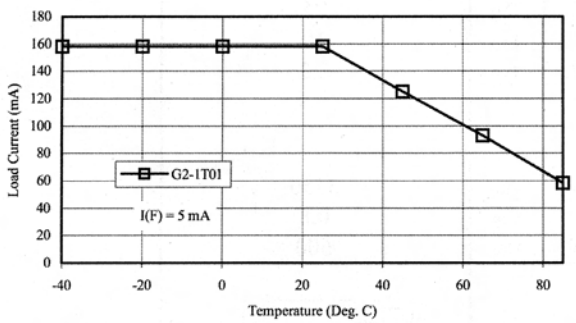
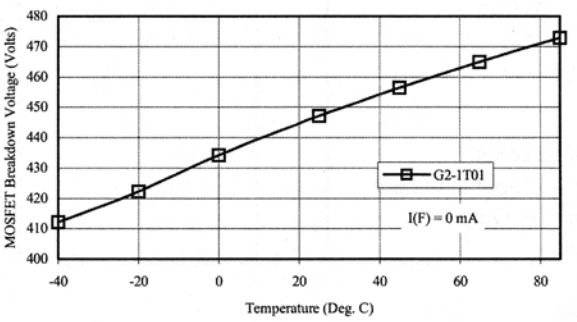
G2 Series/ INTEGRATED TELECOM Solid State Relays

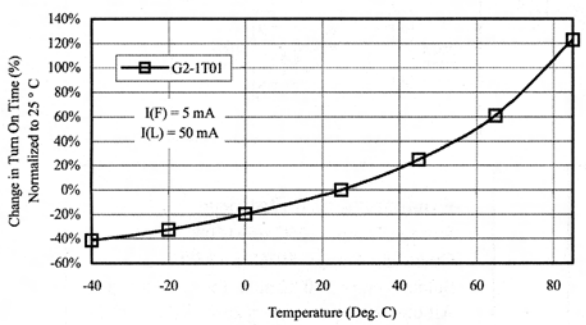
Model Number					**G2-1T01**
Optocoupler Specifications	Sym.	Test Conditions	Units		Telecom
Input Characteristics					
LED Forward Current to Operate	I_{Fon}	No shunt resistor	mA	Max	6.0
Input Characteristics				Typ	2.0
LED Forward Voltage Drop	V_F	I_F = 10mA	VDC	Min	0.9
				Typ	1.5
LED Current; Detector Off			µA	Min	5
				Typ	25
LED Continuous Forward Current	I_F		mA	Max	50
Output Characteristics (pins 3 & 4)					
Saturation Voltage	V_L	I_F = 16mA, I_C = 2mA	V	Typ	0.8
Collector-Emitter Breakdown Voltage	BV_{CEO}		V	Min	30
Dark Current Leakage	I_{CEO}	I_F = 0mA, V_{CE} = 5V	nA	Typ	10
				Max	100
Trickle Current Leakage	I_{CEO}	I_F = 5mA, V_{CE} = 5V	µA	Max	1.0
General Characteristics					
DC Current Transfer Ratio	CTR	I_F = 6mA, V_{CE} = 0.5V	%	Min	33
				Typ	165
Phototransistor Power Dissipation	P_{Diss}		mW	Max	150
Dielectric Strength - Input to Output		t = 60sec.	V RMS	Min	3750



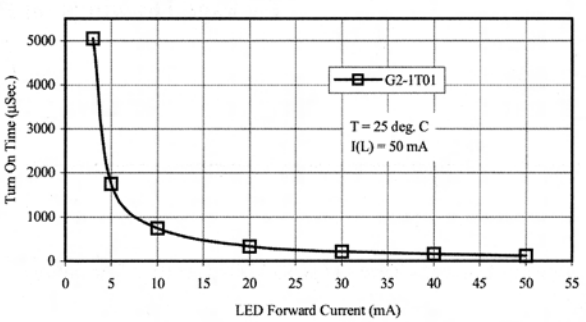
A. Load Current vs. Ambient Temperature



B. Output MOSFET BV vs. Ambient Temperature



C. On Time vs. Ambient Temperature



D. Turn On Time vs. LED Forward Current

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