

G2 Series/ **2 FORM A**

Solid State Relays

CRYDOM

Control over power

Model Number

G2-2A03

Parameters

Input Characteristics

	Sym.	Test Conditions	Units	2 Form A	
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10ms$	A DC	Max Typ	10 3.4
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	A DC	Min Typ	0.1 3.0
Recommended Forward Current	I_F		A DC	Min Max	15 40
LED Forward Voltage	V_F	$I_F = 20mA$	V DC	Min Max	1.1 1.4

Maximum Input Ratings

LED Forward Current	I_F		A DC	Max	50
LED Reverse Voltage Withstand	V_R	$I_R = 10mA$	V DC	Max	10

Output Characteristics

Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	15
Switching Current	I_L	Each Channel Both Ch.'s Simultaneously	mA mA	Max Max	250 150
Current Limit	I_{Lmt}	$I_F = 5mA, t = 5ms$	mA	Min Max	n/a n/a
On Resistance	R_{on}	$I_F = 5mA/0mA, I_L = 50mA$	W	Max	8
Off State Resistance	R_{off}	$I_F = 0mA, V_L = 15V$	GW	Min Typ	0.5 5000
Off State Leakage	I_{off}	$I_F = 0mA, V_L = 15V$	nA	Max Typ	200 0.5
	I_{off}	$I_F = 0mA, V_L = Max$	mA	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		$I_F = 10mA$	mV	Typ	0.2

General Characteristics

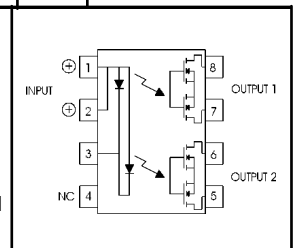
Dielectric Strength - Input to Output		$t = 60sec$	VRMS	Min	3750
Capacitance - Input to Output			pF	Typ	1.2
Power Dissipation	P_{Diss}		mW	Max	600

Notes:

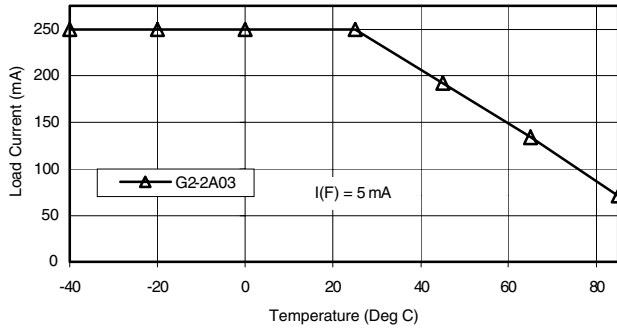
- 1: V_L for LED Forward Current - Turn Off is 50 Volts less than "Switching Voltage Max".
- 2: Specifications subject to change without notice.

* $I_F = 10mA$

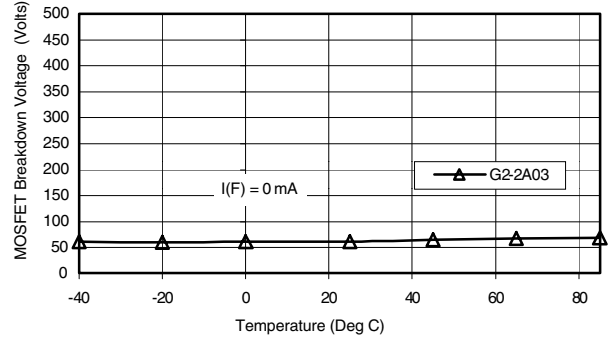
Schematic Top View:
Mold mark on top of relay indicates Pin #1
Package Drawings on Page 3



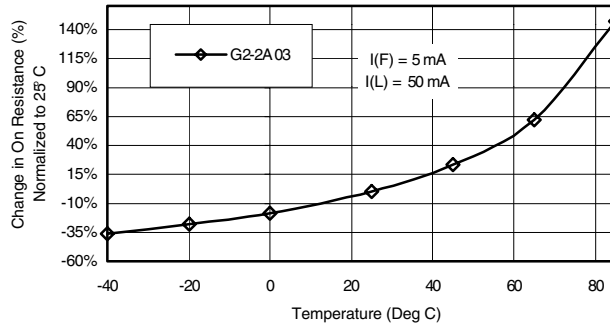
G2 Series/ 2 FORM A



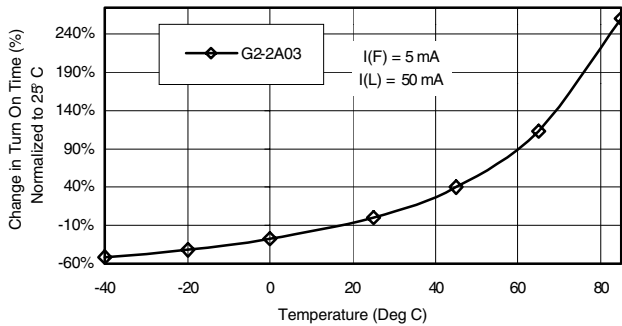
A. Load Current vs. Ambient Temperature



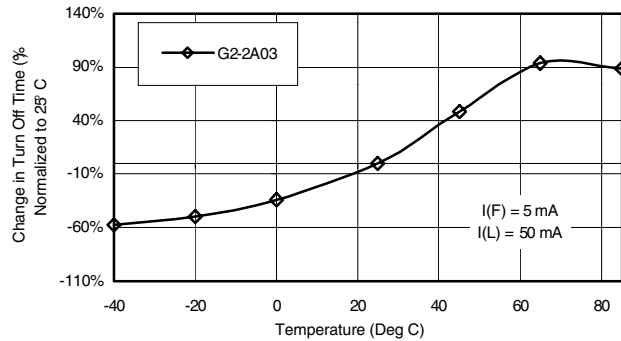
B. Output MOSFET BV vs. Ambient Temperature



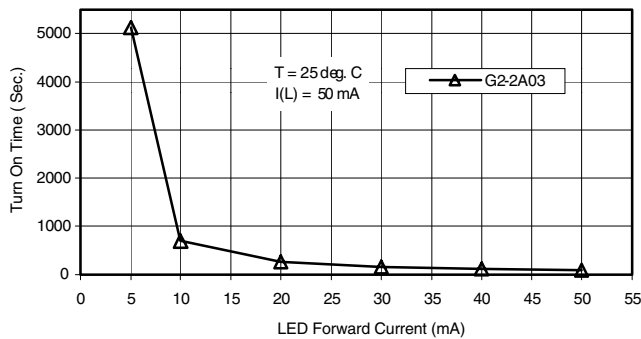
C. On-Resistance vs. Ambient Temperature



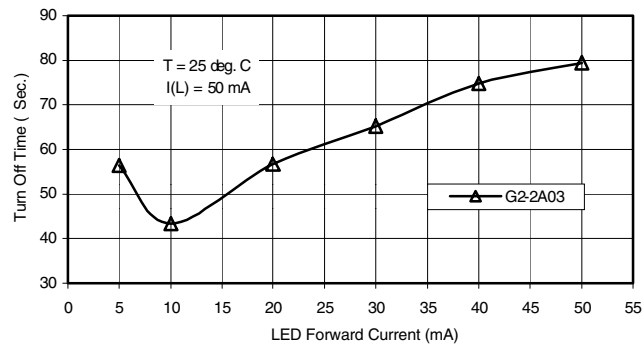
D. On Time vs. Ambient Temperature



E. Turn Off Time vs. Ambient Temperature



F. Turn On Time vs. LED Forward Current



G. Turn Off Time vs. LED Forward Current