G2 Series/ 2 FORM A

Solid State Relays

CRYDOM

Control over power

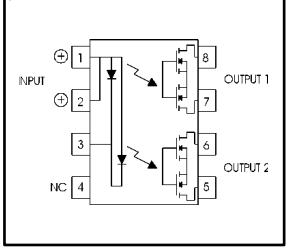
Model Number					**G2-2A03**
Parameters	Sym.	Test Conditions	Units		2 Form A
Input Characteristics					
LED Forward Current - Turn on	I_{Fon}	I_L = 100mA, t = 10ms	mADC	Max Typ	10 3.4
LED Forward Current - Turn off	I_{Foff}	I_L = 0.2mA, V_L = (Note 1)	mADC	Min Typ	0.1 3.0
Recommended Forward Current	I_F		mADC	Min Max	15 40
LED Forward Voltage	V_F	I_F = 20mA	VDC	Min Max	1.1 1.4
Maximum Input Ratings					
LED Forward Current	I_F		mADC	Max	50
LED Reverse Voltage Withstand	V_R	I_R = 10mA	VDC	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.

Schematic Top View:
Mold mark on top of relay indicates Pin #1



For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540
Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154
Email: sales@crydom.com **WEB SITE:** http://www.crydom.com

UK: +44 (0)1202 365070 • **FAX** +44 (0)1202 365090 Crydom International Ltd., 7 Cobham Road, Ferndown Industrial Estate, Ferndown, Dorset BH21 7PE, **Email**: intsales@crydom.com.
GERMANY: +49 (0)180 3000 506

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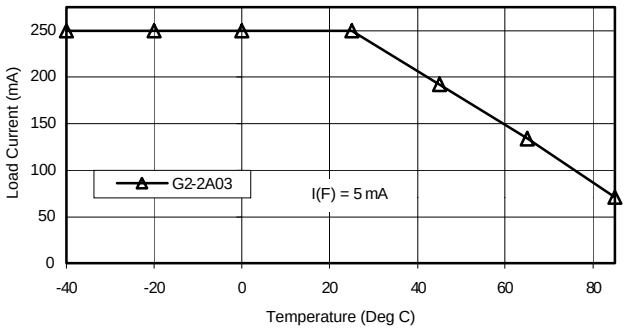
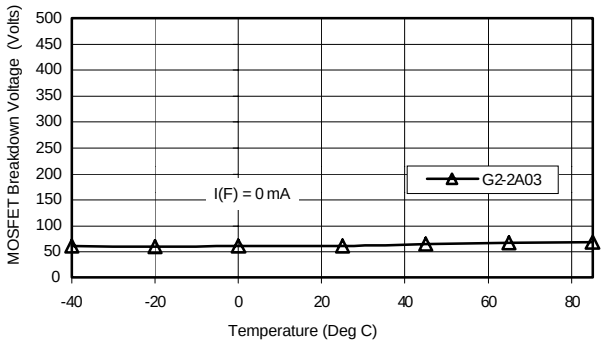
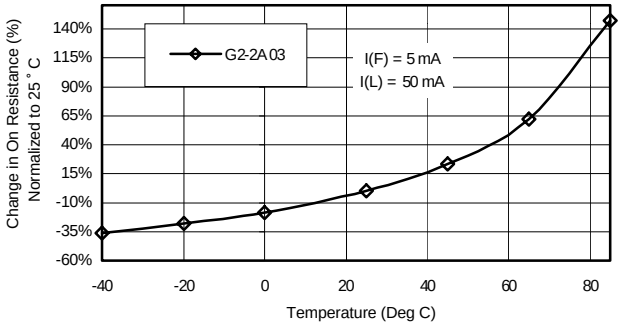


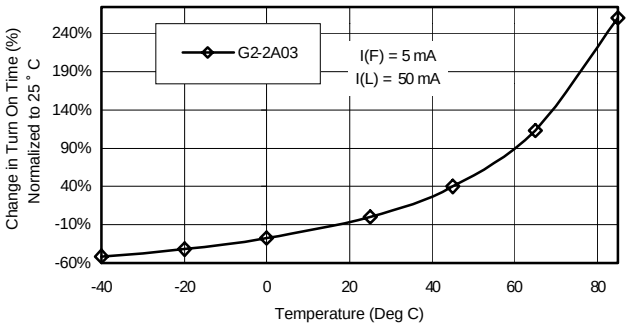
A. Load Current vs. Ambient Temperature



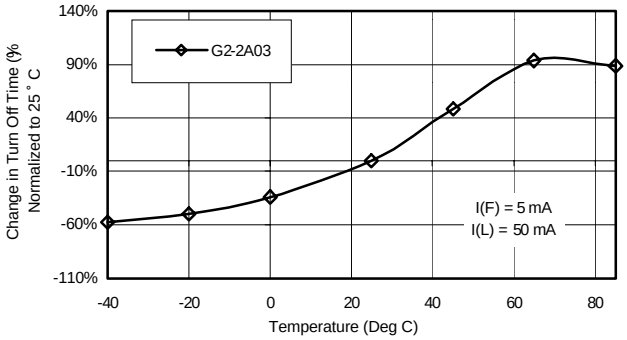
B. Output MOSFET BV vs. Ambient Temperature



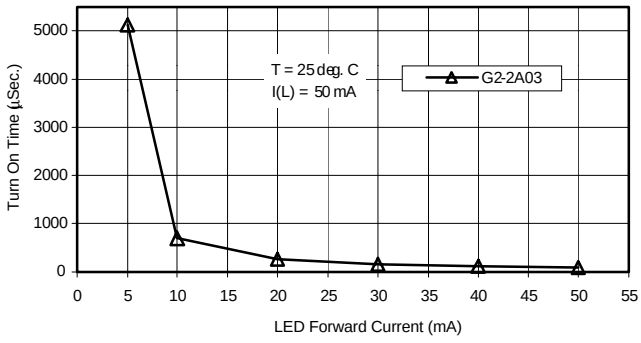
C. On-Resistance vs. Ambient Temperature



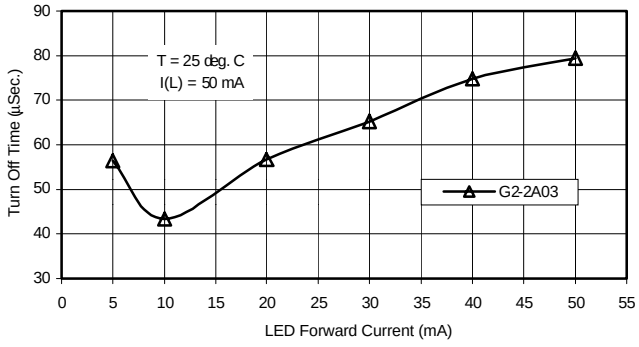
D. On Time vs. Ambient Temperature



E. Turn Off Time vs. Ambient Temperature



F. Turn On Time vs. LED Forward Current



G. Turn Off Time vs. LED Forward Current

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