Crydom

See full Datasheet below...

G2 Series/ 1A/1B

Solid State Relays

CRYDOM

Control over power

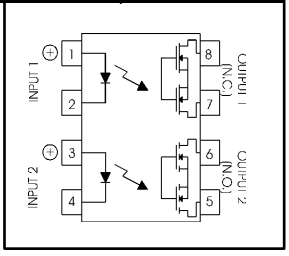
Model Number					**G2-AB01**	**G2-AB02**
Parameters	Sym.	Test Conditions	Units		1A/1B	1A/1B
Input Characteristics						
LED Forward Current - Turn on	I_{Fon}	I_L = 100mA, t = 10ms	mADC	Max Typ	5.0 2.0	5.0 2.0
LED Forward Current - Turn off	I_{Foff}	I_L = 0.2mA, V_L = (Note 1)	mADC	Min Typ	0.1 1.8	0.1 1.8
Recommended Forward Current	I_F		mADC	Min Max	10 30	10 30
LED Forward Voltage	V_F	I_F = 20mA	VDC	Min Max	1.1 1.4	1.1 1.4
Maximum Input Ratings						
LED Forward Current	I_F		mADC	Max	50	50
LED Reverse Voltage Withstand	V_R	I_R = 10mA	VDC	Max	10	10
Output Characteristics						
Switching Voltage	V_L	I_L = 50mA	V PEAK	Max	400	250
Switching Current	I_L	Each Channel Both Ch.'s Simultaneously	mA mA	Max Max	150 110	200 150
Current Limit: N.O. Channel Only	I_{Lmt}	I_F = 5mA, t = 5ms	mA	Typ	380	380
On Resistance	R_{on}	I_F = 5mA/0mA, I_L = 50mA	W	Max	24	13
Off State Resistance: N.O. Channel	R_{off}	I_F = 0mA, V_L = 100V	GW	Min Typ	0.5 5000	0.5 5000
Off State Resistance: N.C. Channel	R_{off}	I_F = 5mA, V_L = 100V	GW	Min Typ	0.5 5000	0.5 5000
Off State Leakage: N.O. Channel	I_{off} I_{off}	I_F = 0mA, V_L = 100V I_F = 0mA, V_L = Max	nA mA	Max Typ Max	200 0.17 1	200 0.17 1
Off State Leakage: N.C. Channel	I_{off} I_{off}	I_F = 5mA, V_L = 100V I_F = 5mA, V_L = Max	mA mA	Max Typ Max	0.02 1 1	0.02 1 1
Turn On Time	T_{on}	I_F = 5mA, I_L = 50mA	ms	Max	5.0	5.0
Turn Off Time	T_{off}	I_F = 5mA, I_L = 50mA	ms	Max	1.0	1.0
Thermal Offset Voltage		I_F = 5mA	mV	Typ	0.2	0.2
General Characteristics						
Dielectric Strength - Input to Output		t = 60sec	VRMS	Min	3750	3750
Capacitance - Input to Output			pF	Typ	1.2	1.2
Power Dissipation	P_{Diss}		mW	Max	600	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

For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 **Tech Support** (877) 702-7700 **FAX** (619) 710-8540
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Email: sales@crydom.com **WEB SITE:** http://www.crydom.com

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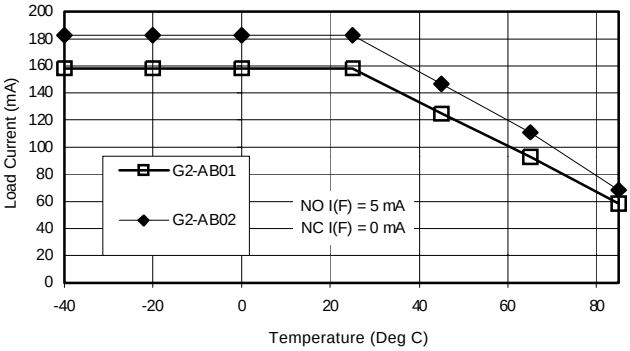
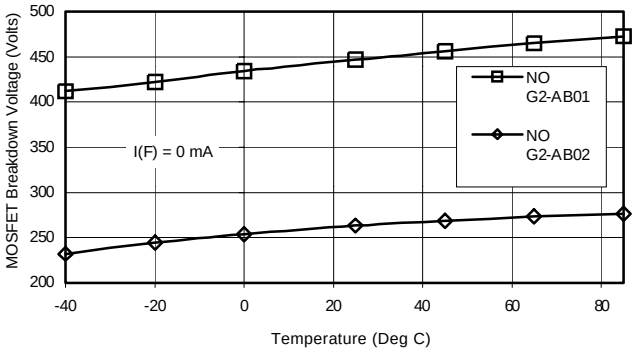
G2 Series/ 1A/1B

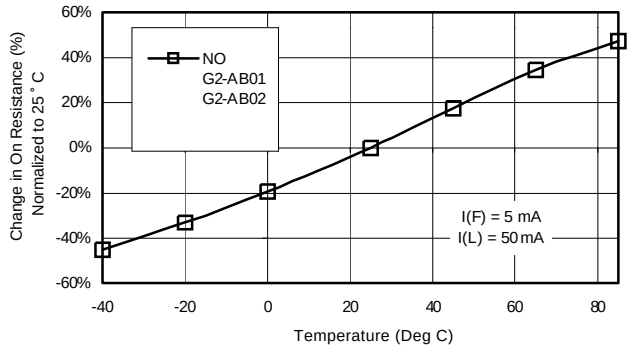
*See page 3 for characteristic curves of normally closed switches



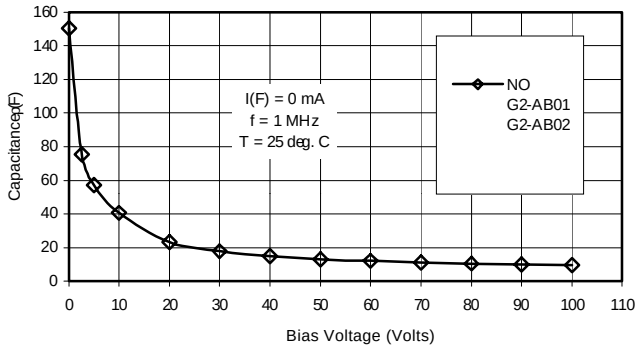
A. Load Current vs. Ambient Temperature



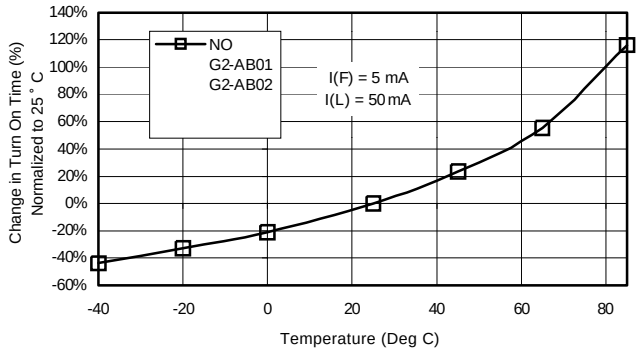
B. Output MOSFET vs. Ambient Temperature



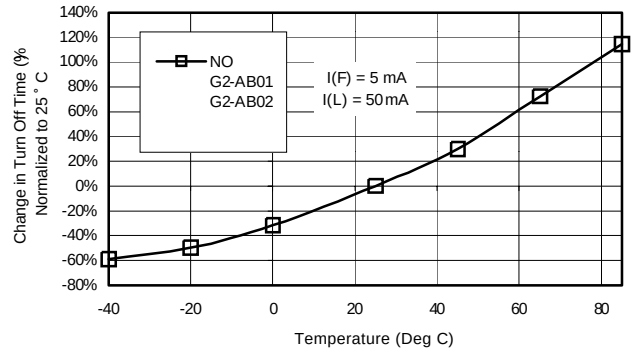
C. On-Resistance vs. Ambient Temperature



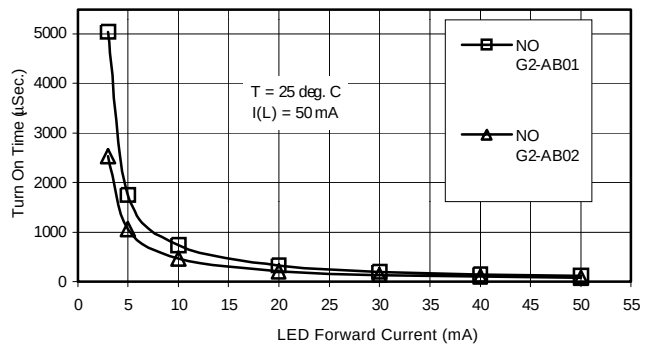
D. Output Capacitance vs. Applied Voltage



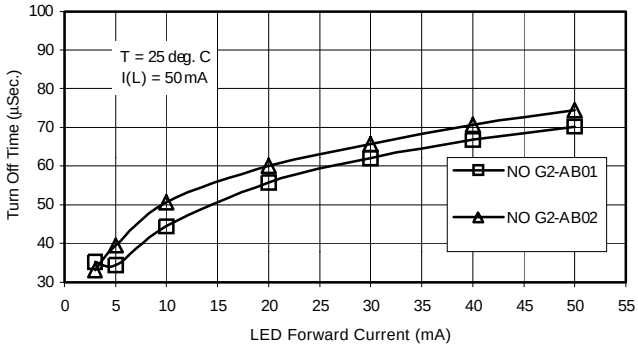
E. On Time vs. Ambient Temperature



F. Turn Off Time vs. Ambient Temperature



G. Turn On Time vs. LED Forward Current



H. Turn Off Time vs. LED Forward Current

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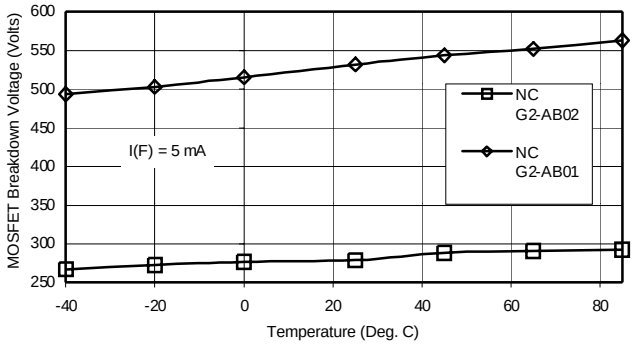
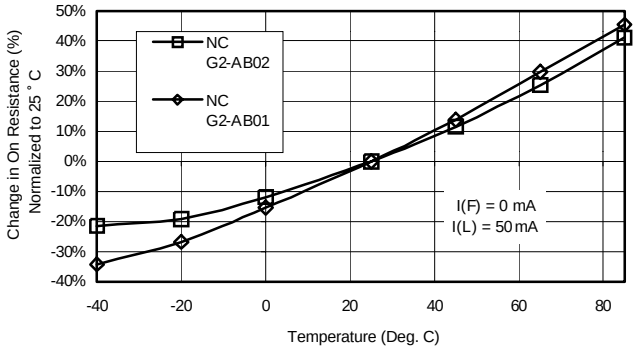
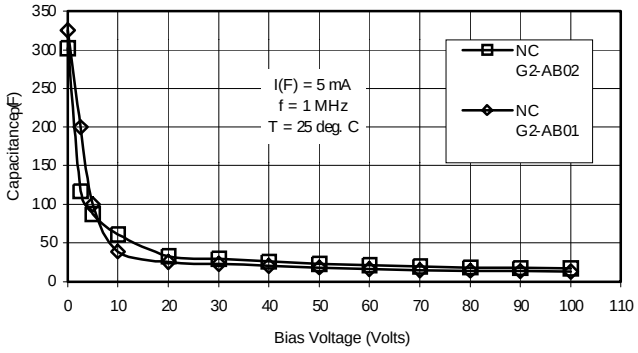


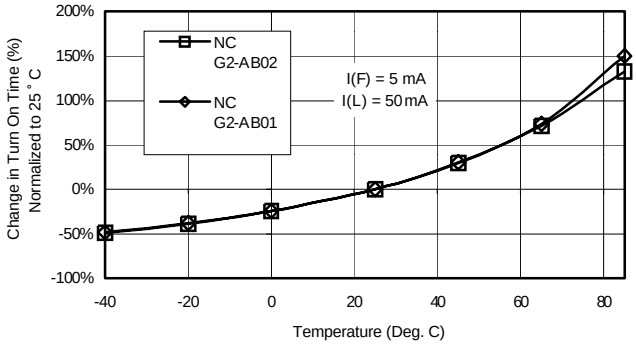
I. Output MOSFET BV vs. Ambient Temperature



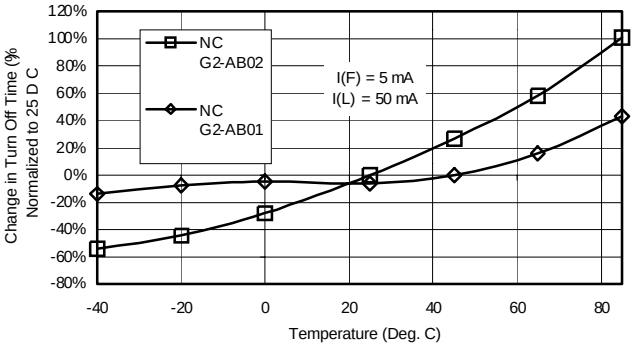
J. On-Resistance vs. Ambient Temperature



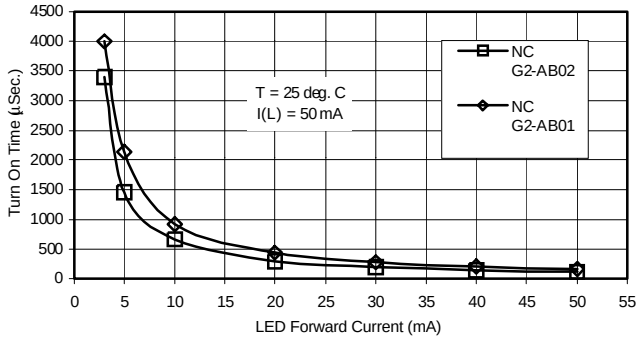
K. Output Capacitance vs. Applied Voltage



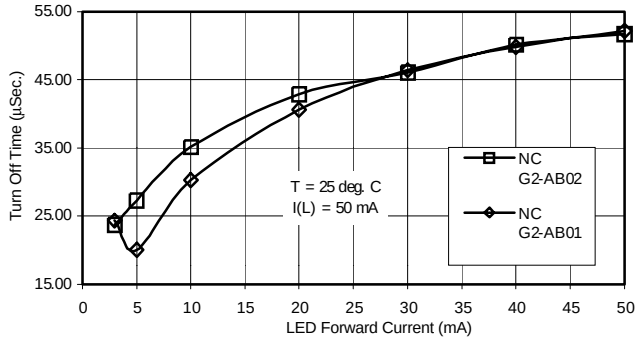
L. On Time vs. Ambient Temperature



M. Turn Off Time vs. Ambient Temperature



N. Turn On Time vs. LED Forward Current



O. Turn Off Time vs. LED Forward Current

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