crydom™

G2-1A23

Solid State Relays

Model Number					
Parameters	Sym.	Test Conditions	Units		1 Form A
Input Characteristics					
LED Forward Current - Turn on	I_{Fon}	I_L = 100mA, t = 10ms	mADC	Max Typ	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
Recommended Forward Current	I_F		mADC	Min Max	10 30
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		Max	10
Output Characteristics					
Switching Voltage: AC Mode(Note2)	V_L	Pin 4 to Pin 6	V PEAK	Max	60 Vrms
Switching Voltage: DC Mode(Note2)	V_L	Pins 5(-) to Pins 4&6 (+)	V PEAK	Max	100 V
Switching Current: AC Mode(Note2)	I_L	Pin 4 to Pin 6	mA	Max	1Amp
Switching Current: DC Mode(Note2)	I_L	Pins 5(-) to Pins 4&6 (+)	mA	Max	2Amp
Current Limit: AC Mode(Note2)	I_{Lmt}	I_F = 5mA, t = 5ms	mA	Typ	n/a
Current Limit: DC Mode(Note2)	I_{Lmt}	IF = 5mA, t = 5ms	mA	Typ	n/a
On Resistance: AC Mode(Note2)	R_{on}	I_F = 5mA, I_L = 50mA	Ω	Max	1.58
On Resistance: DC Mode(Note2)	R_{on}	IF = 5mA, I_L = 50mA	Ω	Max	0.31
Off State Resistance	R_{off}	I_F = 0mA, V_L = 100V	GΩ	Min Typ	0 5 5000
Off State Leakage	I_{off}	I_F = 0mA, V_L = Max	µA	Max	25
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 I_F = 0mA, V_L = 50V	pF pF	Typ Typ	550 150
Thermal Offset Voltage		I_F = 5mA	mV	Typ	0.2
General Characteristics					
Dielectric Strength - Input to Output		t = 60sec	VRMS	Min	3750
Capacitance - Input to Output			pF	Typ	0.8
Power Dissipation	P_{Diss}		mW	Max	500

Notes:

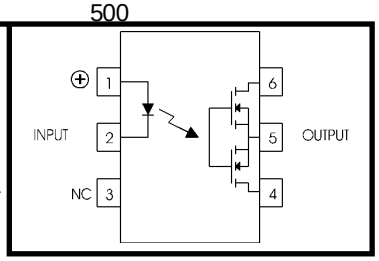
1: V_L for LED Forward Current - Turn Off is 50 Volts less than "Switching Voltage : Max".

2: See "AC Mode and DC Mode Operation" on Page 67 for further description of AC and DC Mode.

3: Specifications subject to change without notice.

* I_F = 10mA

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



For recommended applications and more information contact:
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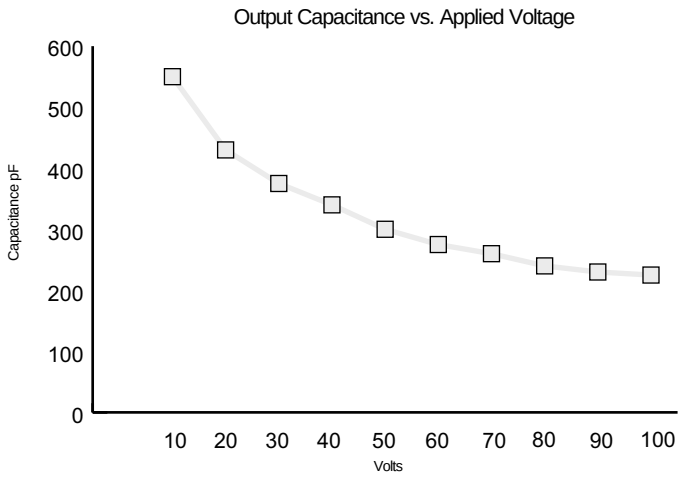

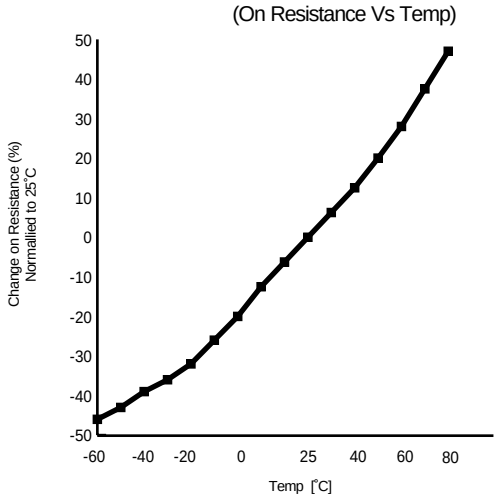

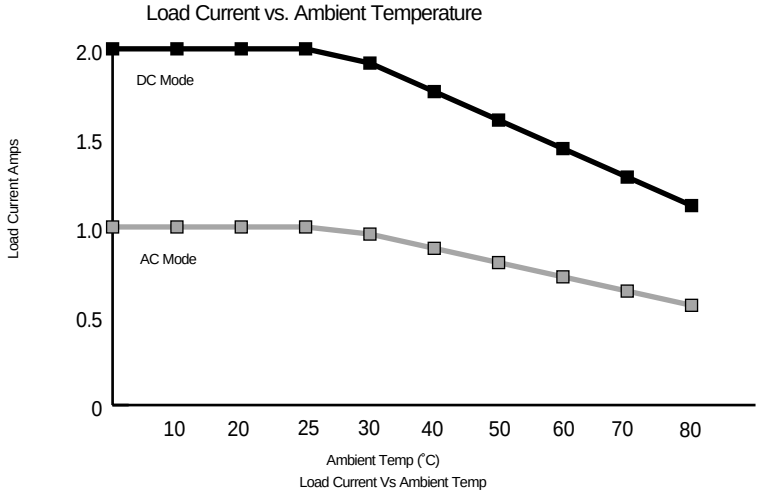

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