

Crydom

See full Datasheet below...

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

BUY NOW

 **MASTER**TM
E L E C T R O N I C S

BUY NOW

masterelectronics.com & onlinecomponents.com
are **authorized** e-commerce distributors
of electronic components.



Photomos / **DUAL FORM A** Solid State Relays

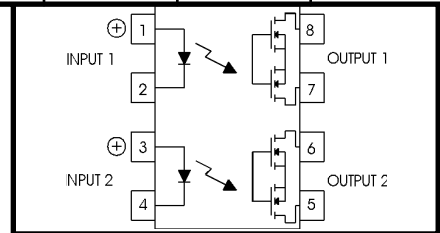
Model Number					PAA110L	LAA110L	PAA110	LAA120L
					Dual Form A	Dual Form A	Dual Form A	Dual Form A
Parameters	Sym.	Test Conditions	Units					
Input Characteristics								
LED Forward Current - Turn on	I_{Fon}	$I_L = 100mA, t = 10ms$	mADC	Max Typ	5.0 2.0	5.0 2.0	5.0 2.0	5.0 2.0
LED Forward Current - Turn off	I_{Foff}	$I_L = 0.2mA, V_L = (Note 1)$	mADC	Min Typ	0.1 1.8	0.1 1.8	0.1 1.8	0.1 1.8
Recommended Forward Current	I_F		mADC	Min Max	10 30	10 30	10 30	10 30
LED Forward Voltage	V_F	$I_F = 20mA$	VDC	Min Max	1.1 1.4	1.1 1.4	1.1 1.4	1.1 1.4
Maximum Input Ratings								
LED Forward Current	I_F		mADC	Max	50	50	50	50
LED Reverse Voltage Withstand	V_R	$I_R = 10mA$	VDC	Max	10	10	10	10
Output Characteristics								
Switching Voltage	V_L	$I_L = 50mA$	V PEAK	Max	400	400	400	250
Switching Current	I_L	Each Channel Both Ch's Simultaneously	mA	Max	150	120	180	180
			mA	Max	110	70	125	125
Current Limit	I_{Lmt}	$I_F = 5mA, t = 5ms$	mA	Typ	380	380	n/a	380
On Resistance	R_{on}	$I_F = 5mA, I_L = 50mA$	Ω	Max	24	35	18	18
Off State Resistance	R_{off}	$I_F = 0mA, V_L = 100V$	G Ω	Min Typ	0.5 5000	0.5 5000	0.5 5000	0.5 5000
Off State Leakage	I_{off}	$I_F = 0mA, V_L = 100V$	nA	Max Typ	200 0.5	200 0.5	200 0.5	200 0.5
	I_{off}	$I_F = 0mA, V_L = Max$	mA	Max	1	1	1	1
Turn On Time	T_{on}	$I_F = 5mA, I_L = 50mA$	ms	Max	5.0	5.0	5.0	5.0
Turn Off Time	T_{off}	$I_F = 5mA, I_L = 50mA$	ms	Max	1.0	1.0	1.0	1.0
Capacitance - Across Output		$I_F = 0mA, V_L = 1V$	pF	Typ	95	60	95	110
		$I_F = 0mA, V_L = 50V$	pF	Typ	10	7	10	5
Thermal Offset Voltage		$I_F = 5mA$	mV	Typ	0.2	0.2	0.2	0.2
General Characteristics								
Dielectric Strength - Input to Output		$t = 60sec$	VRMS	Min	3750	3750	3750	3750
Capacitance - Input to Output			pF	Typ	1.2	1.2	1.2	1.2
Power Dissipation	P_{Diss}		mW	Max	600	600	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.

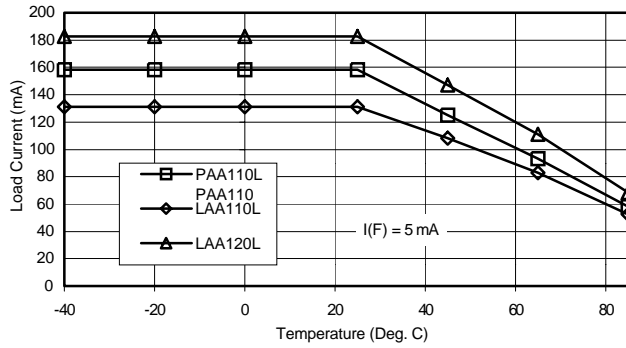
Schematic Top View:
Mold mark on top of relay indicates Pin #1



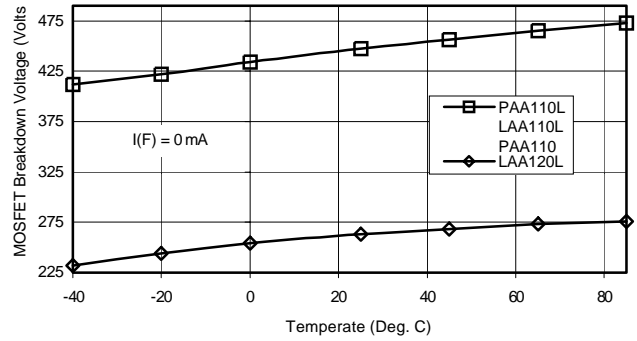
For recommended applications and more information contact:
USA: Sales Support (877) 502-5500 Tech Support (877) 702-7700 FAX (619) 710-8540
 Crydom Corp, 2320 Paseo de las Americas, Ste. 201, San Diego, CA 92154
 Email: sales@crydom.com **WEB SITE:** http://www.crydom.com

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

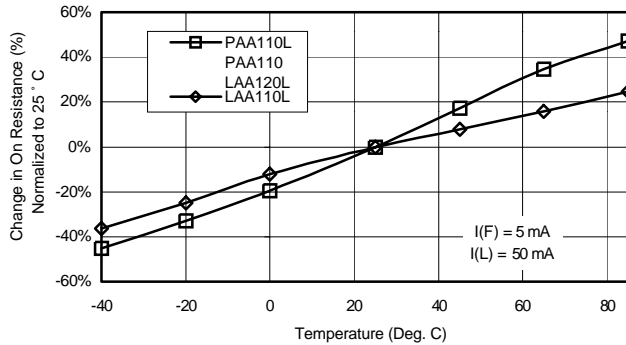
Photomos / DUAL FORM A



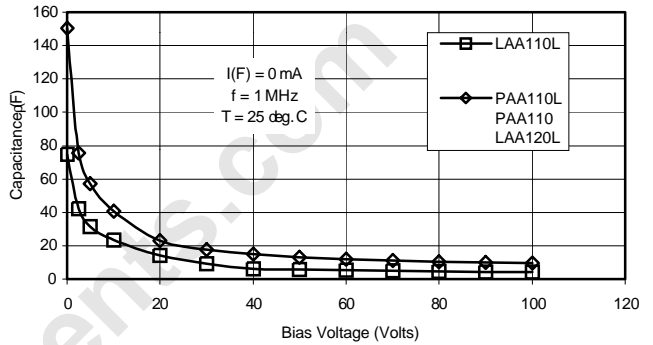
A. Load Current vs. Ambient Temperature



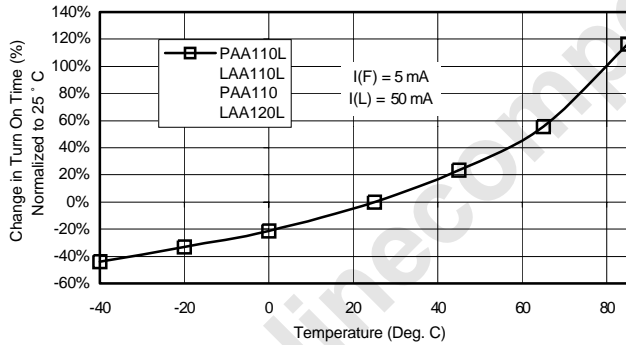
B. Output MOSFET BV vs. Ambient Temperature



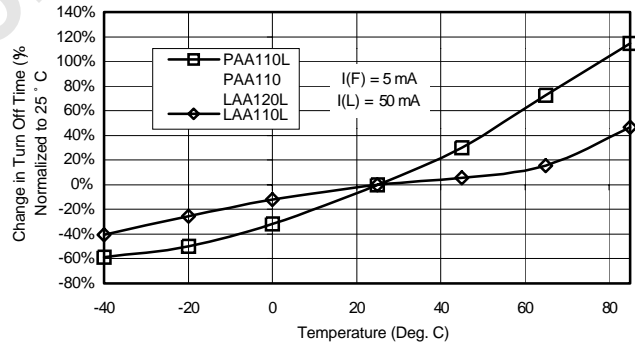
C. On-Resistance vs. Ambient Temperature



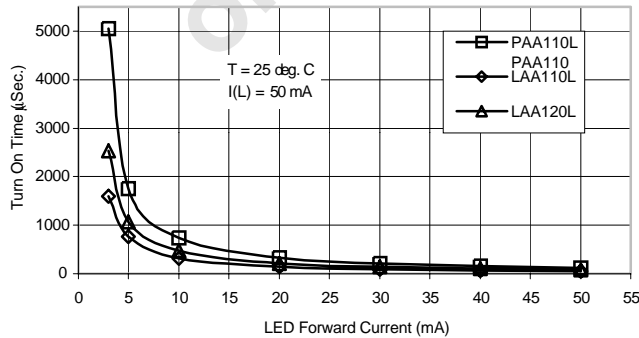
D. Output Capacitance vs. Applied Voltage



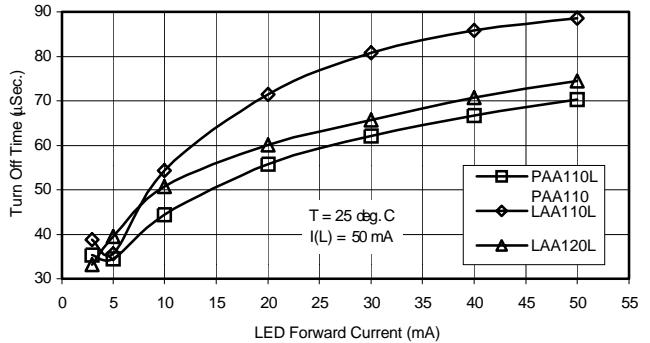
E. On Time vs. Ambient Temperature



F. Turn Off Time vs. Ambient Temperature



G. Turn On Time vs. LED Forward Current



H. Turn Off Time vs. LED Forward Current

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