



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

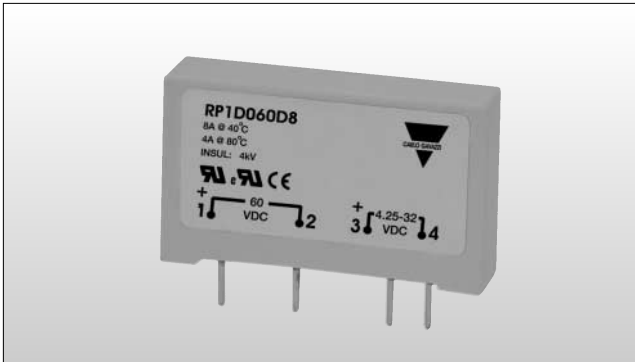
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Solid State Relays PCB, 1-Phase DCS Type RP1D



- DC Solid State Relay for PCB mounting
- Rated operational current: Up to 8 ADC
- Rated operational voltage: Up to 350 VDC
- Surface mount technology
- Flexible encapsulation for extended life
- Control voltage: 4.25 to 32 VDC
- Isolation (Input - Output): 4000 VACrms

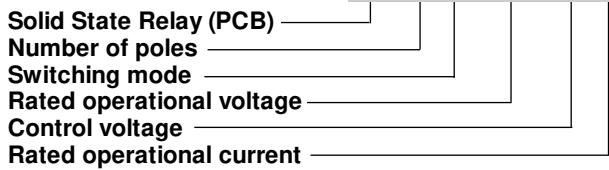
Product Description

The DC switching relay for PCB mounting is used in applications where there is a need for fast switching of small DC loads with a high input/output insulation of

more than 4000 VACrms. The DC switching relay always switches on and off in accordance with the applied control voltage.

Ordering Key

RP 1 D 060 D 8



Type Selection

Switching mode	Rated operational voltage	Control voltage	Rated operational current
D: DC switching	060: 60 VDC 350: 350 VDC	D: 4.25 to 32 VDC	1: 1 ADC 4: 4 ADC 8: 8 ADC

Selection Guide

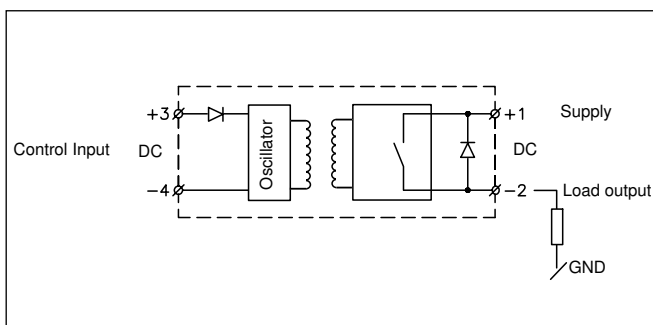
Rated operational voltage	Control voltage	Rated operational current		
		1 ADC	4 ADC	8ADC
60 VDC	4.25 to 32 VDC		RP1D060D4*	RP1D060D8*
350 VDC	4.25 to 32 VDC	RP1D350D1**		

* add suffix 'M1' to part no. for DIN rail mountable module, example: RP1D060D4M1
 ** add suffix 'M2' to part no. for DIN rail mountable module, example: RP1D350D1M2

General Specifications

	RP1D060...	RP1D350...
Operational voltage range	1 to 60 VDC	1 to 350 VDC
Off-state blocking voltage	60 VDC	350 VDC
CE-marking	Yes	Yes
Approvals	UL, cUL	UL, cUL

Wiring Diagram



Housing Specifications

Weight	Approx. 20 g
Housing material	PBT, grey
Terminals	Copper alloy, tin-plated
Potting compound	Flame-retardant flexible silicone rubber

Thermal Specifications

Operating temperature	-20° to +80°C (-4° to +176°F)
Storage temperature	-40° to +100°C (-40° to +212°F)

Output Specifications

	RP1D350D1	RP1D060D4	RP1D060D8
Rated operational current @Ta=40°C	DC1 1 ADC DC5 1 ADC DC13 1 ADC	4 ADC 4 ADC 4 ADC	8 ADC 8 ADC 8 ADC
Minimum operational current	1 mADC	1 mADC	1 mADC
Rep. overload current t=1 s	20 ADC	15 ADC	60 ADC
Off-state leakage current @rated voltage	< 0.01 mADC	< 0.01 mADC	< 0.01 mADC
On-state voltage drop @rated current	< 0.5 VDC	< 0.5 VDC	< 1.0 VDC

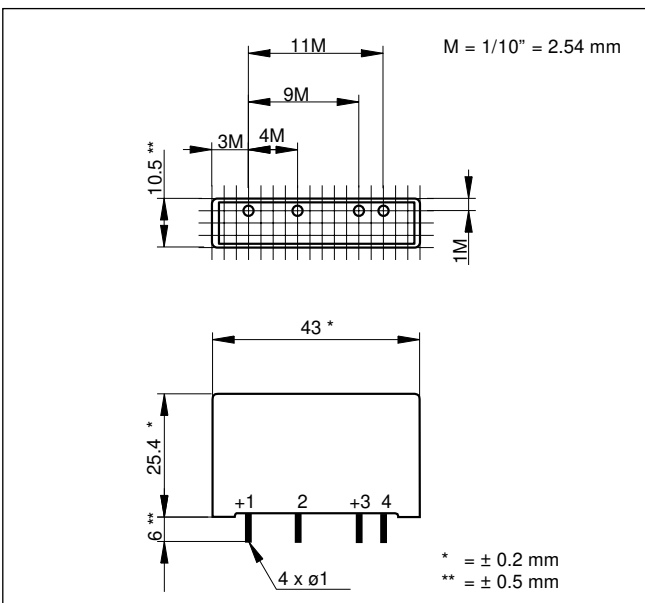
Input Specifications

Control voltage range	4.25 to 32 VDC
Pick-up voltage @Ta=25°C	3.3 VDC
Drop-out voltage	1 VDC
Reverse voltage	32 VDC
Switching frequency	< 100 Hz
Response time pick-up @Vin ≥ 5 VDC	< 100 μs
Response time drop-out @Vin ≤ 24 VDC max.	< 250 μs
Input current	15mA

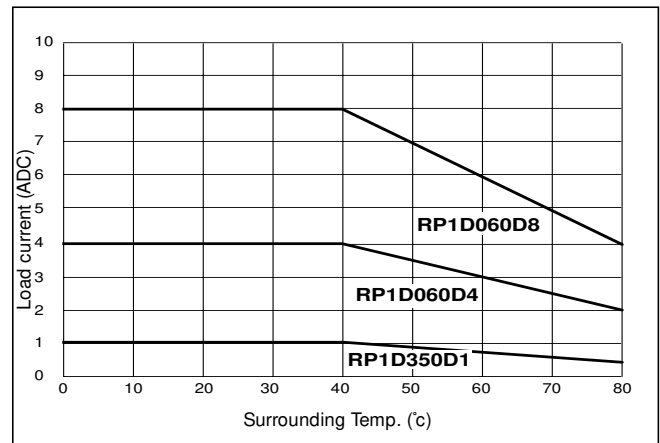
Isolation Input - Output

Rated isolation voltage	> 4000 VACrms
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Dimensions



Derating Curve



Accessories



M1 Din-rail adaptor (photo)

Fuses

For further information refer to "General Accessories".