

DC solid state relays S1D series

New release

S1D-4010WD

Load voltage DC450V

Maximum load current 10A

■Features

- High-speed,high-frequency control
- Operation indicator with LED
- Private heat-sink in options
- Safety cover in options



■Ratings

(Ta=25°C)

Items		Symbols	S1D-4010WD	S1D-0540WD	S1D-0515WD	S1D-1010WD	S1D-2005WD	Units		
Output	Maximum Load Voltage	VOMAX	600	60			150	200	VDC	
	Load Voltage Range	Pure DC Bridge Rectification	VO	5~450	3~50			3~120	3~200	VDC
				300	35			100	140	Vrms
	Maximum Load Current	IOMAX	10	40	15	10	5	ADC/Arms		
Surge Current Ratings	ISURGE	30 (1sec)	120 (1sec)	50 (1sec)	25 (1sec)	10 (1sec)	A			
Input	Maximum Input Voltage	VIMAX	28					VDC		
	Max Input Current	IIMAX	20					mADC		
General	Dielectric Strength	VISO	2,500 1Min (input-output-case)(Rh40~60%)					VACrms		
	Isolation Resistance	RISO	10 ⁸ (MIN) DC500V (input-output-case)(Rh40~60%)					Ω		
	Operating Temperature Range	TOPR	-20~80					°C		
	Storage Temperature Range	TSTG	-30~100					°C		

■Electrical Characteristics

(Ta=25°C)

Items		Symbols	S1D-4010WD	S1D-0540WD	S1D-0515WD	S1D-1010WD	S1D-2005WD	Units
Output	Off State Leakage Current	ILEK	0.1(MAX) (Vo=450V)	0.1(MAX) (Vo=50V)		0.1(MAX) (Vo=120V)	0.1(MAX) (Vo=200V)	mADC
	On State Voltage Drop	VSAT	1.5(MAX)	0.5(MAX)		1.5(MAX)	1.5(MAX)	VDC
	Minimum Load Current	IOMIN	0.1					mA
Input	Input Voltage Range	VI	4~28					VDC
	Operate Voltage	VP	4(MAX)					VDC
	Release Voltage	VD	1(MIN)					VDC
General	Operate Time	TON	1ms(MAX) (Resistive load)		5ms(MAX) (Resistive load)			/
	Release Time	TOFF	1ms(MAX) (Resistive load)		5ms(MAX) (Resistive load)			
	Capacitance	CIO	150(MAX)					PF

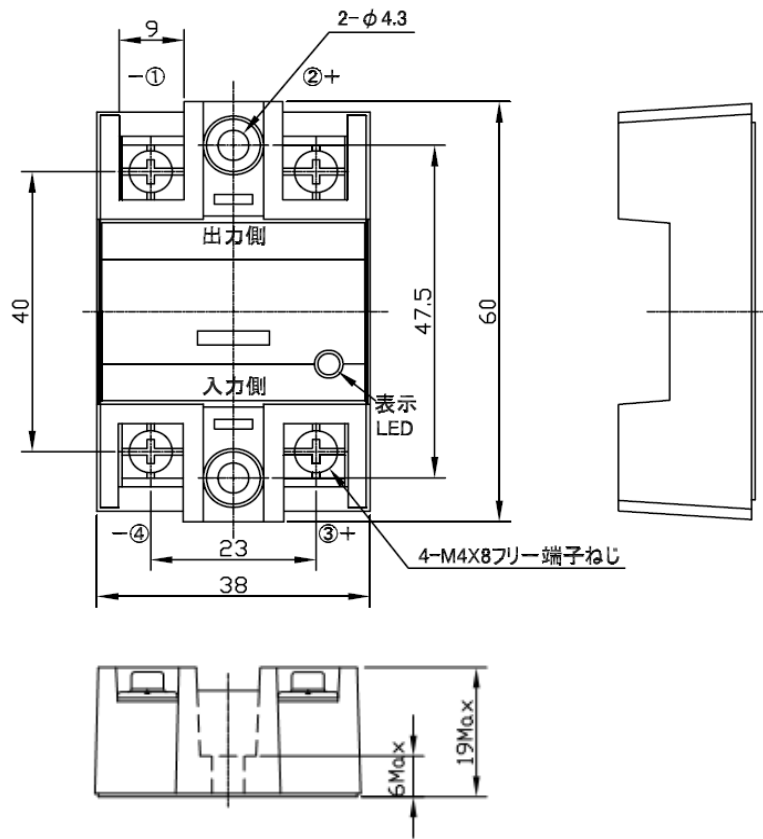
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■Dimensions (mm)



■Characteristic curves

