Willamette High Voltage Salem, OR 503-884-7047 www.HVSwitch.com

Technical Specifications for MHVSW-002V, -005V, -008V and -011V switches
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			-002V	-005V	-008V	-011V	Unit
Max Voltage Across Terminals	$V_{i(max)}$		2000	5000	8000	11000	Volts
Break Down Voltage	V_{bd}		3000	6000	9000	12000	Volts
Isolation Voltage	V_I	Maximum Voltage (±) from ground	>15000	>15000	>15000	>15000	Volts
Maximum Peak Current	I_{peak}	See safe operation document	15	15	15	15	Amps
Maximum Continuous Current	I_C	@ 25° C	0.79	0.56	0.54	0.39	Amps
On Resistance	R_O	@ 25° C	8.1	16.2	24.3	32.4	Ω
Turn on delay time	$t_{d(on)}$		<100	<100	<100	<100	ns
Turn on rise time	$t_{r(on)}$		10	10	10	10	ns
Turn off delay time	$t_{d(off)}$		<100	<100	<100	<100	ns
Turn off rise time	$t_{r(off)}$		10	10	10	10	ns
Minimum on Time	$t_{on(min)}$	Shorter on time can result in unpredictable switch behavior	50	50	50	50	ns
Maximum on Time	$t_{on(max)}$	Limited by maximum power dissipation	∞	∞	∞	∞	
Turn on jitter	$t_{j(on)}$		<400	<400	<400	<400	ps
Maximum Continuous Switching Frequency	$f_{(max)}$	Limited by maximum power dissipation, High burst frequencies possible	30	30	30	30	kH
Maximum Continuous Power Dissipation	P_{max}	Total power dissipation into switch	5	5	5	5	Watts
Operating Temperature Range	T_O		-40		70		° C
Switch Capacitance	C_s		15.6	7.8	5.2	3.9	pF
Coupling Capacitance	C_c						pF
Supply Voltage	V_{sup}	±0.25 volts	5	5	5	5	Volts
Supply Current	C_{sup}	@ $f_{(max)}$ (preliminary)	0.5	0.5	0.5	0.5	Amps
Trigger Signal	V_{trig}	74LVC input, 1kΩ pull-down resistor		3.5	6		Volts
Fault Signal	V_{fault}	Push-Pull Output, 0.25 Amp max Low = Fault	L = 0.1		H = 4.9		Volts
Dimensions		89 x 64 x 27					mm^3