

Technical Specifications for MHVSW-030V
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			<i>-015A</i>	<i>-045A</i>	<i>Unit</i>
Max Voltage Across Terminals	$V_{i(max)}$		30000	30000	Volts
Break Down Voltage	V_{bd}		32000	32000	Volts
Isolation Voltage	V_1	Maximum Voltage (\pm) from ground	>40000	>40000	Volts
Maximum Peak Current	I_{peak}	See safe operation document	15	45	Amps
Maximum Continuous Current	I_C	@ 25° C	0.34	0.59	Amps
On Resistance	R_O	@ 25° C	87	29	Ω
Turn on delay time	$t_{d(on)}$		<100	<100	ns
Turn on rise time	$t_{r(on)}$		13	13	ns
Turn off delay time	$t_{d(off)}$		<100	<100	ns
Turn off rise time	$t_{r(off)}$		13	13	ns
Minimum on Time	$t_{on(min)}$	Shorter on time can result in unpredictable switch behavior	50	50	ns
Maximum on Time	$t_{on(max)}$	Limited by maximum power dissipation	∞	∞	
Turn on jitter	$t_{j(on)}$		<400	<400	ps
Maximum Continuous Switching Frequency	$f_{(max)}$	Limited by maximum power dissipation, High burst frequencies possible	30	30	kH
Maximum Continuous Power Dissipation	P_{max}	Total power dissipation into switch	10	10	Watts
Operating Temperature Range	T_O				° C
Switch Capacitance	C_s				pF
Coupling Capacitance	C_c				pF
Supply Voltage	V_{sup}	± 0.25 volts	5		Volts
Supply Current	C_{sup}	@ $f_{(max)}$ (preliminary)	0.5		Amps
Trigger Signal	V_{trig}	74LVC input, 1k Ω pull-down resistor			Volts
Fault Signal	V_{fault}	Push-Pull Output, 0.25 Amp max Low = Fault (with fault out opt.)	L = 0.1		Volts
Dimensions			95 x 159 x 36		mm ³