

### Three – Phase Bridge Rectifier

#### Features

- Easy connections
- Excellent power volume ratio
- Insulated type

Voltage Ratings ( $T_J = 25^{\circ}\text{C}$ unless otherwise noted)				
Type number	Voltage code	VRRM, Max. repetitive peak reverse voltage (V)	VRSM, Max. non-repetitive peak reverse voltage (V)	IRRM max @ $T_J$ max (mA)
60 MDS	80	800	900	10
	100	1000	1100	
	120	1200	1300	
	140	1400	1500	
	160	1600	1700	

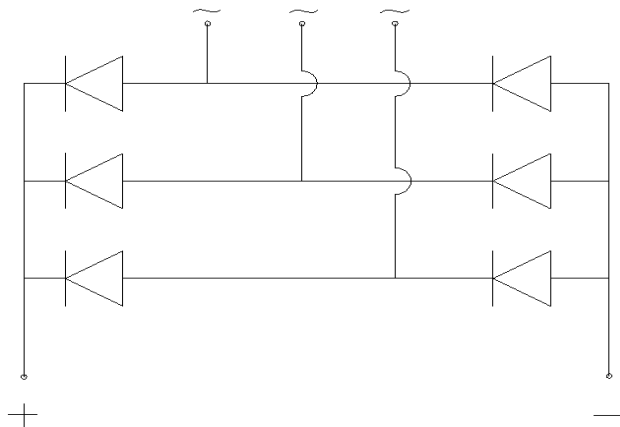


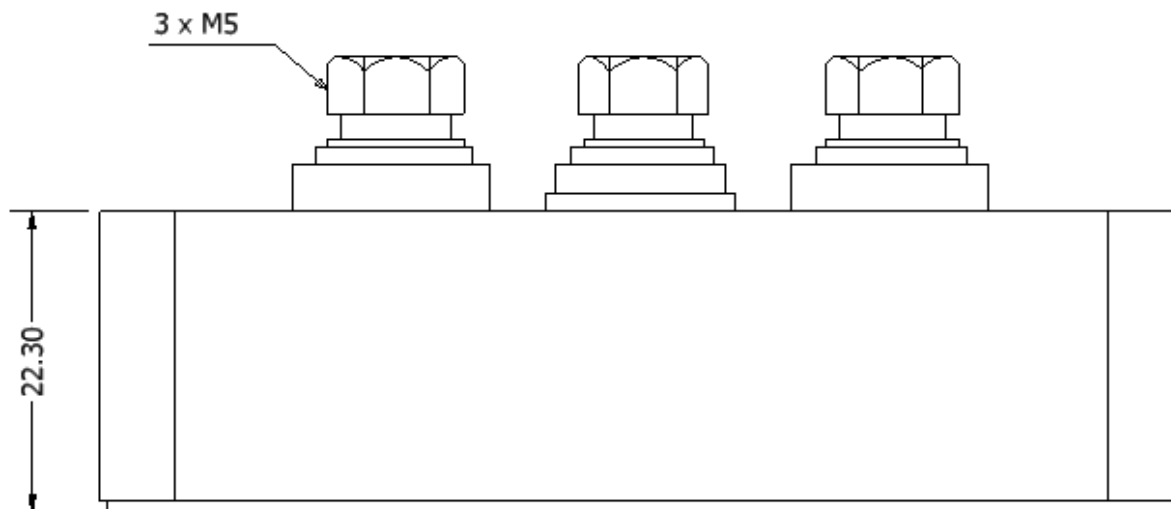
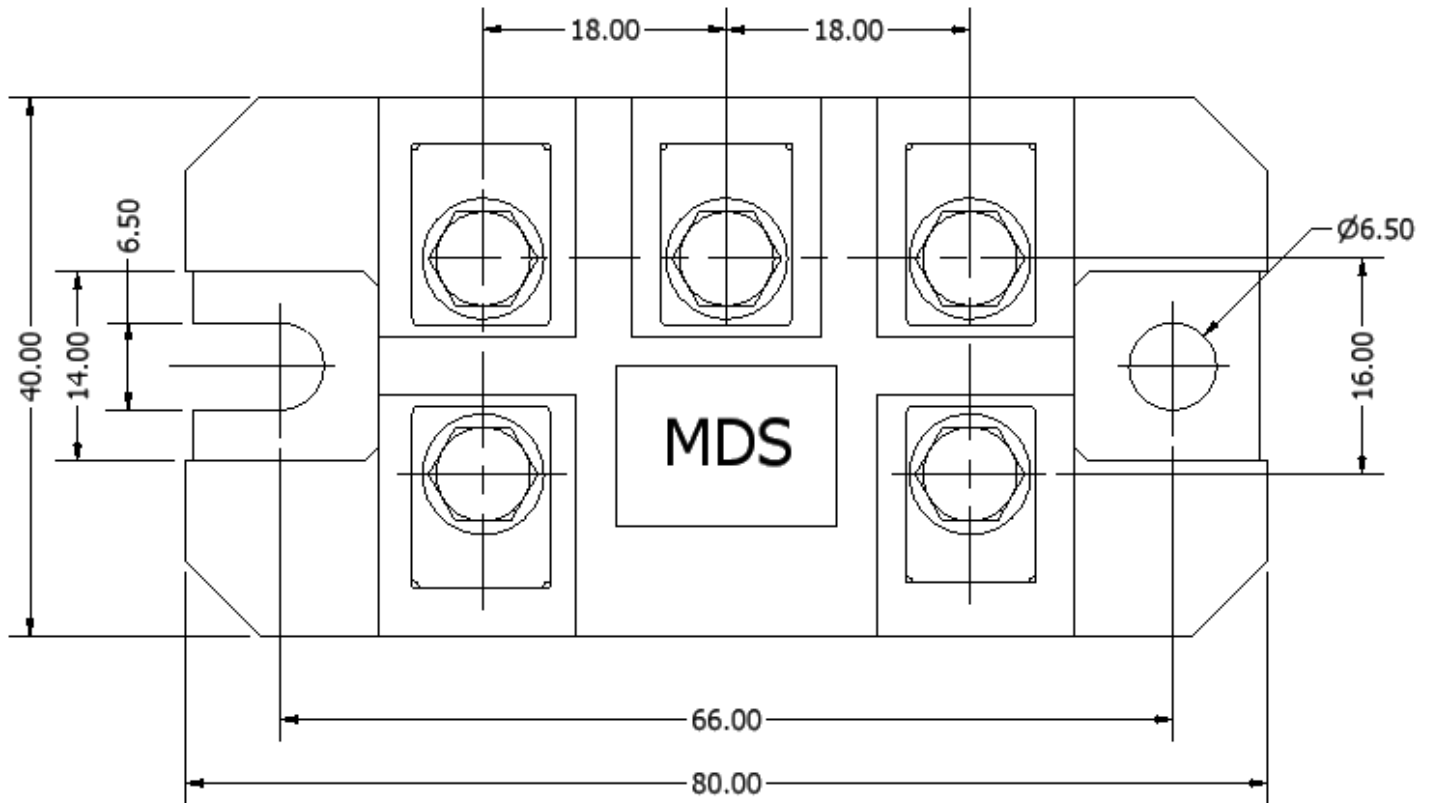
MDS

Thermal and Mechanical Specifications ( $T_A = 25^{\circ}\text{C}$ unless otherwise noted)			
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	$T_J$	- 40 to + 150	$^{\circ}\text{C}$
Maximum storage temperature range	$T_{Stg}$	- 40 to + 150	$^{\circ}\text{C}$
Maximum thermal resistance, junction to case	$R_{th(jc)}$	DC operation per module	0.37
		DC operation per junction	2.22
		120 Rect conduction angle per module	0.40
		120 Rect conduction angle per junction	2.42
Maximum thermal resistance, case to heatsink	$R_{th(cs)}$	0.03	$^{\circ}\text{C}/\text{W}$
Mounting torque $\pm 10\%$	T	to heatsink	4 to 6
		to terminal	3 to 4
Approximate weight		176	g

Electrical Specifications ( $T_J = 25^{\circ}\text{C}$ unless otherwise noted)					
Parameters	Conditions		Symbol	Values	Units
Maximum DC output current	120° Rect conduction angle, $T_C = 85^{\circ}\text{C}$		$I_0$	60	A
Maximum peak one-cycle forward, non-repetitive surge current	t = 10ms	No voltage reappplied	$I_{FSM}$	420	A
	t = 8.3ms			100% $V_{RRM}$ reappplied	
	t = 8.3ms	$T_J = T_J \text{ max.}$			
	t = 10ms			370	
Maximum $I^2t$ for fusing	T = 8.3ms	No voltage reappplied	$I^2t$	870	$\text{A}^2\text{s}$
	T = 10ms			100% $V_{RRM}$ reappplied	
	T = 8.3ms	$T_J = T_J \text{ max.}$			
	T = 10ms			560	
Maximum $J^2vt$ for fusing	T = 0.1 to 10ms, no voltage reappplied		$J^2vt$	8700	$\text{A}^2\text{Vs}$
Low level value of threshold voltage	$[16.7\% * \pi * I_{F(AV)} < I < \pi * I_{F(AV)}], @ T_J \text{ max}$		$V_{F(TO)1}$	0.85	V
High level value of threshold voltage	$[I > \pi * I_{F(AV)}], @ T_J \text{ max}$		$V_{F(TO)2}$	1.07	V
Low level value of forward slope resistance	$[16.7\% * \pi * I_{F(AV)} < I < \pi * I_{F(AV)}], @ T_J \text{ max}$		$r_1$	8.04	$\text{m}\Omega$
High level value of forward slope resistance	$[I > \pi * I_{F(AV)}], @ T_J \text{ max}$		$r_2$	7.08	$\text{m}\Omega$
Maximum forward voltage drop	$I_{pk} = 100\text{A}, t_p = 400 \mu\text{s}$ single junction		$V_{FM}$	1.75	V
RMS isolation voltage	f = 50Hz, t = 1ms, all terminals shorted		$V_{ISO}$	4000	V

### Diode Configuration





ALL DIMENSIONS IN MM