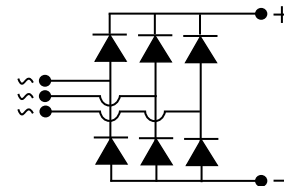


## Three Phase Bridge Rectifier, 125 Amps

### Features

- Easy connections
- Excellent power volume ratio
- Insulated type



MDS

Voltage Ratings ( $T_J = 25^\circ\text{C}$ unless otherwise noted)				
Type number	Voltage code	$V_{RRM}$ , Max. repetitive peak reverse voltage (V)	$V_{RSM}$ , Max. non-repetitive peak reverse voltage (V)	$I_{RRM}$ max @ $T_J$ max (mA)
MDS110	80	800	900	2.0
	100	1000	1100	
	120	1200	1300	
	140	1400	1500	
	160	1600	1700	

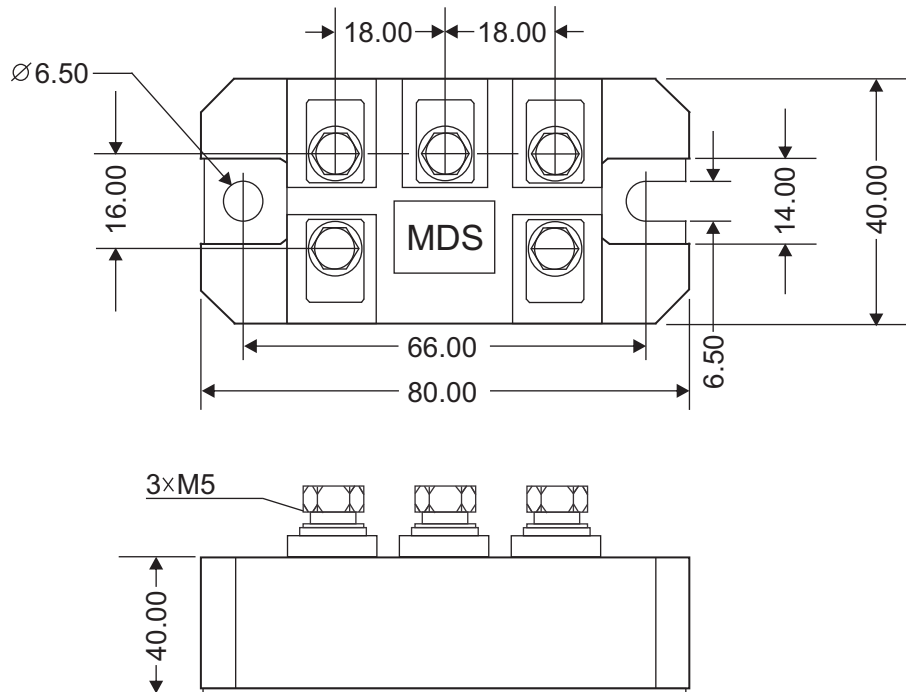


Electrical Specifications ( $T_J = 25^\circ\text{C}$ unless otherwise noted)				
Parameters	Conditions	Symbol	Values	Units
Maximum DC output current	$T_C = 110^\circ\text{C}$ , $T_J = 150^\circ\text{C}$	$I_{DC}$	125	A
Forward surge current (non-repetitive), one cycle	$f = 50$ Hz	$I_{FSM}$	1200	A
Fusing current	$t = 10$ ms	$I^2t$	7200	$\text{A}^2\text{s}$
Maximum forward voltage drop	$I_{FM} = 150\text{A}$ , $T_J = 25^\circ\text{C}$	$V_{FM}$	1.46	V
RMS isolation voltage	1 min.	$V_{ISO}$	3000	V

Thermal and Mechanical Specifications ( $T_J = 25^\circ\text{C}$ 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 + 125	$^\circ\text{C}$
Threshold Voltage		$V_{TO}$	max. 0.79	V
Slope Resistance		$r_T$	max. 4.5	$\text{m}\Omega$
Maximum thermal resistance, junction to case		$R_{th(j-c)}$	0.7	$^\circ\text{C}/\text{W}$
Mounting torque	to heatsink	F	$4 \pm 15\%$	Nm
	to terminal		$4 \pm 15\%$	
Approximate weight		W	180	g

**Package Outline**

*(All dimensions in mm)*



**Ordering Table**

<i>MDS</i>	<i>110</i>	<i>/</i>	<i>160</i>
<b>1</b>	<b>2</b>		<b>3</b>

- 1 – Three-Phase Bridge
- 2 – Current =  $I_D$
- 3 – Voltage Code x 10 =  $V_{RRM}$  (See Voltage Ratings Table)