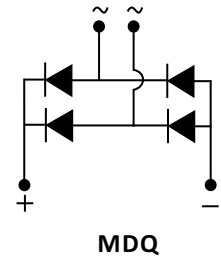


Single Phase Bridge Rectifier, 125 Amps

Features

- Easy connections
- Excellent power volume ratio
- Insulated type



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)
MDQ110	80	800	900	2
	100	1000	1100	
	120	1200	1300	
	140	1400	1500	
	160	1600	1700	

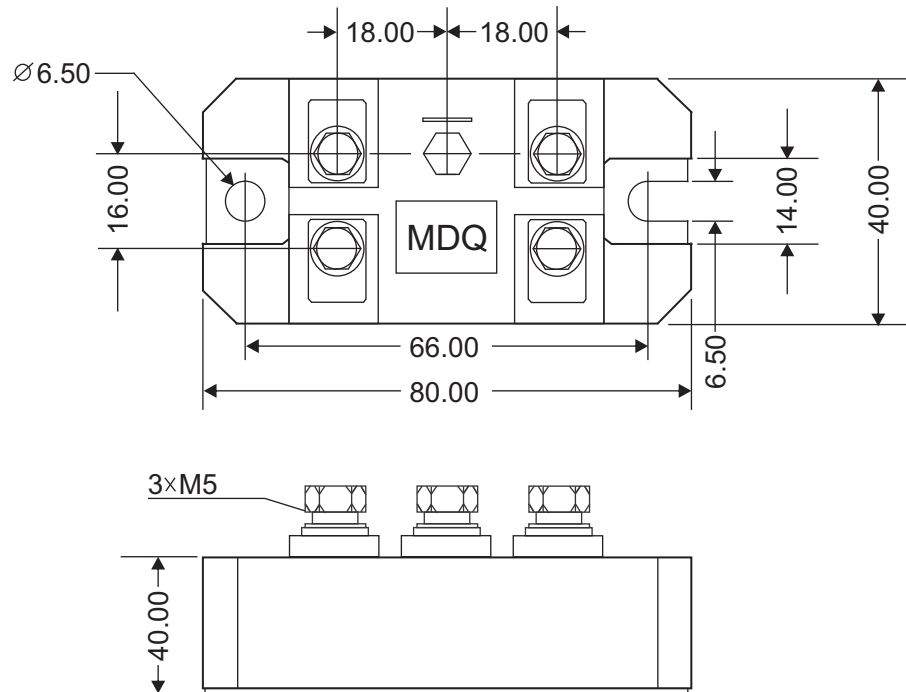


Electrical Specifications ($T_J = 25^\circ\text{C}$ unless otherwise noted)				
Parameters	Conditions	Symbol	Values	Units
Maximum DC output current	$T_C = 105^\circ\text{C}$, $T_J = 150^\circ\text{C}$	I_{DC}	125	A
Forward surge current (non-repetitive), one cycle	$f = 50\text{ Hz}$	I_{FSM}	1800	A
Fusing current	$t = 10\text{ ms}$	I^2t	16200	A^2s
Maximum forward voltage drop	$I_{FM} = 100\text{A}$, $T_J = 25^\circ\text{C}$	V_{FM}	1.21	V
RMS isolation voltage	1 min.	V_{ISO}	3000	V

Thermal and Mechanical Specifications (T _J = 25°C unless otherwise noted)				
Parameters		Symbol	Values	Units
Maximum operating junction temperature range		T _J	- 40 to + 150	°C
Maximum storage temperature range		T _{STG}	- 40 to + 125	°C
Threshold Voltage		V _{TO}	max. 0.76	V
Slope Resistance		r _T	max. 3.6	mΩ
Maximum thermal resistance, junction to case		R _{th(J-C)}	0.6	°C/W
Mounting torque	to heatsink	F	4 ± 15%	Nm
	to terminal		4 ± 15%	
Approximate weight		W	180	g

Package Outline

(All dimensions in mm)



Ordering Table

MDQ	110	/	160
1	2		3

1 – Single-Phase Bridge

2 – Current = I_D

3 – Voltage Code x 10 = V_{RRM} (See Voltage Ratings Table)