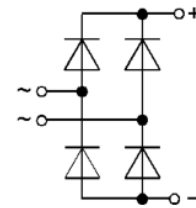


Single Phase Bridge Rectifier, 50 Amps

Features

- Easy connections
- Excellent power volume ratio
- Insulated type



MDQ



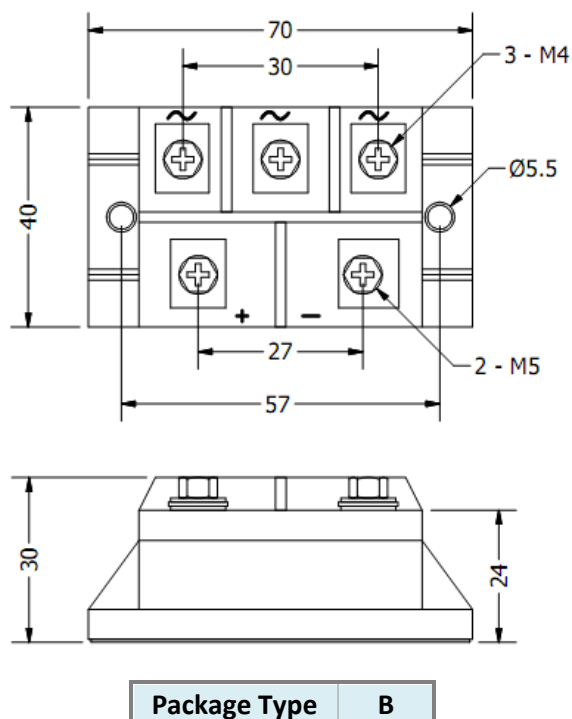
Voltage Ratings ($T_J = 25^\circ\text{C}$ unless otherwise noted)				
Type number	Voltage code	V_{RRM} , Max. repetitive peak reverse voltage (V)	V_{RSM} , Max. non-repetitive peak reverse voltage (V)	I_{RRM} max @ T_J max (mA)
MDQ50	80	800	900	8.0
	100	1000	1100	
	120	1200	1300	
	140	1400	1500	
	160	1600	1700	

Electrical Specifications ($T_J = 25^\circ\text{C}$ unless otherwise noted)				
Parameters	Conditions	Symbol	Values	Units
Maximum DC output current	$T_C = 95^\circ\text{C}$	I_{DC}	50	A
Forward surge current (non-repetitive), one cycle	$f = 50\text{ Hz}$	I_{FSM}	600	A
Fusing current		I^2t	1800	A^2s
Maximum forward voltage drop	$I_{FM} = 50\text{A}$, $T_J = 25^\circ\text{C}$	V_{FM}	1.2	V
RMS isolation voltage		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 + 150	°C
Maximum thermal resistance, junction to case		R _{th(J-C)}	0.31	°C/W
Mounting torque	to heatsink	F	3 ± 15%	Nm
	to terminal		3 ± 15%	
Approximate weight		W	160	g

Package Outline

(All dimensions in mm)



Ordering Table

MDQ	50	-	120
1	2	3	4

1 – Single-Phase Bridge

2 – Current = I_D

3 – Package Type

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