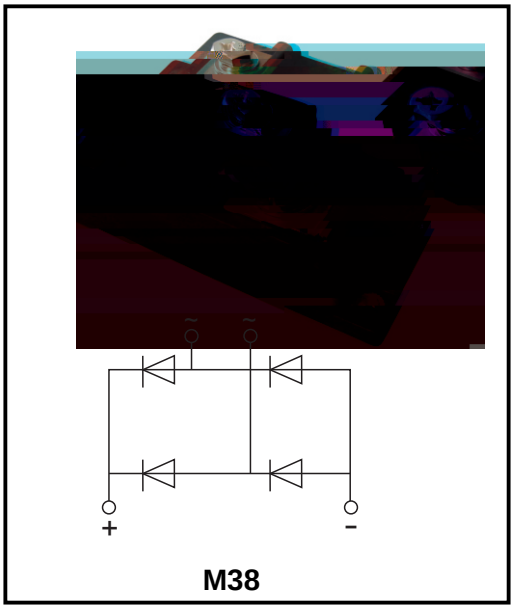
Rectifier module

Reverse Voltage - 800V to 1600V

Forward Current - 400A



M38

Features

- Low reverse leakage current
- High surge current capability
- Compliant to RoHS directive 2011/65/EU

Applications

- Industrial power supply
- DC supply for PWM inverter
- Supplies for DC power equipment

Mechanical Data

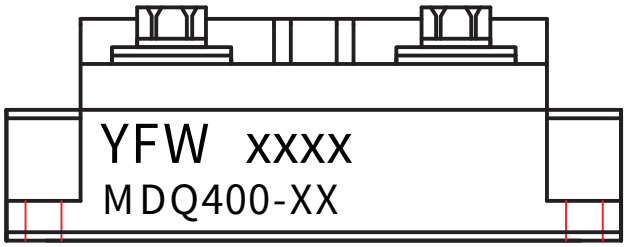
- Case : M38
- Polarity: Polarity symbols being marked on body
- Mounting torque:22.0kgf.cm max
- Weight:About 520 grams

Maximum Ratings @ Ta = 25 unless otherwise noted

Parameter		Symbols	MDQ400-08	MDQ400-10	MDQ400-12	MDQ400-14	MDQ400-16	Units
Maximum recurrent peak reverse voltage		V_{RRM}	800	1000	1200	1400	1600	V
Averagerectifiedoutputcurrent with heatsink,T_C=100		$I_{(AV)}$	400					A
Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load		I_{FSM}	4000					A
Rating for fusing,1ms<t<8.3ms,Tj=25 , Rating of per diode		I^2t	44000					A^2S
Junctiontemperature		Tj	-40 +150					
Storagetemperature		T_{STG}	-40 +125					
Dielectric,strengthterminals to case AC 1 minute		V_{dis}	2.5					KV
Peak Forward Voltage I_F = 400A		V_F	1.2					V
Peak Reverse Current VR=VRRM , Pulse measurementRating of per diode	Tj=25	I_R	0.5					mA
	Tj=125		10					
Junction to case therma lresistance, with heatsink		$R_{\theta JC}$	0.18					/W

R

Marking Diagram



Ordering information

Model name	Package	Unit Weight	Base Quantity
MDQ400-XX		-	1pcs/ Box

Package Dimensions

unit: **Millimeter**

