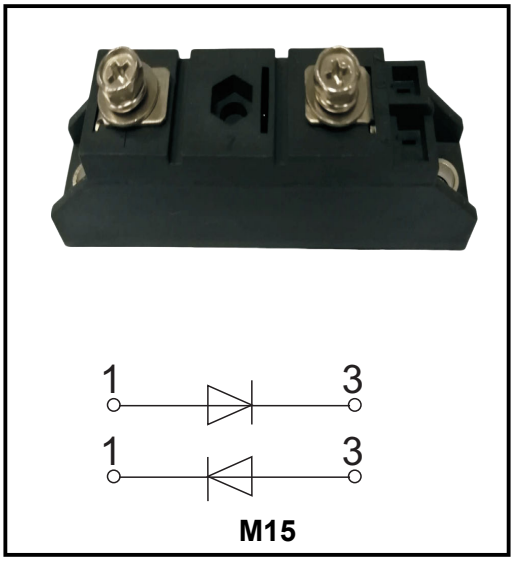
Rectifier module

Reverse Voltage - 800V to 1600V

Forward Current - 100A



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 :M15
- Polarity: Polarity symbols being marked on body
- Mounting torque:25.0kgf.cm max
- Weight : About 90 grams

Maximum Ratings @ Ta = 25℃ unless otherwise noted

Parameter		Symbols	MD100-08	MD100-10	MD100-12	MD100-14	MDC100-16	Units
Maximum recurrent peak reverse voltage		V_{RRM}	800	1000	1200	1400	1600	V
Averagerectifiedoutputcurrent with heatsink,T_C=100℃		$I_{(AV)}$	100					A
Peak surge forward current, 8.3mssingle half sine-wave superimposed on rated load		I_{FSM}	3200					A
Rating for fusing,1ms<t<8.3ms,Tj=25℃, Rating of per diode		I^2t	32370					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 = 100A		V_F	1.3					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

Characteristic Curve

FIG 1.Derating Curve For Output Rectified Current

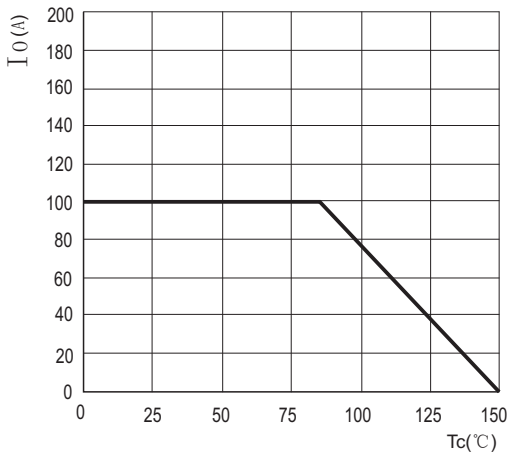


FIG2 .Maximum Non-Repetitive Peak Forward Surge CurrentPer Bridge Element

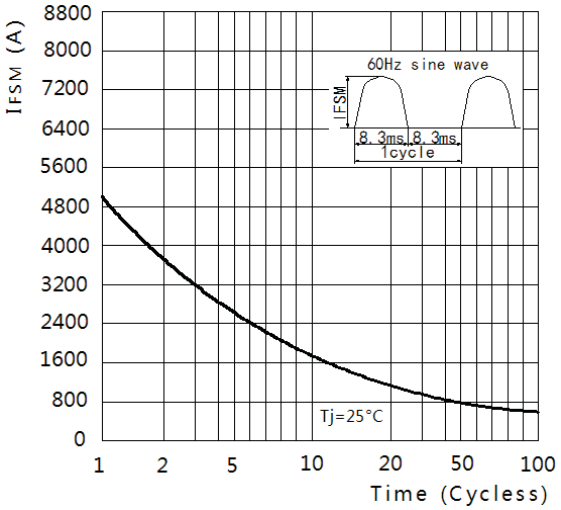


FIG3.Typical Reverse Characteristics Per Bridge Element

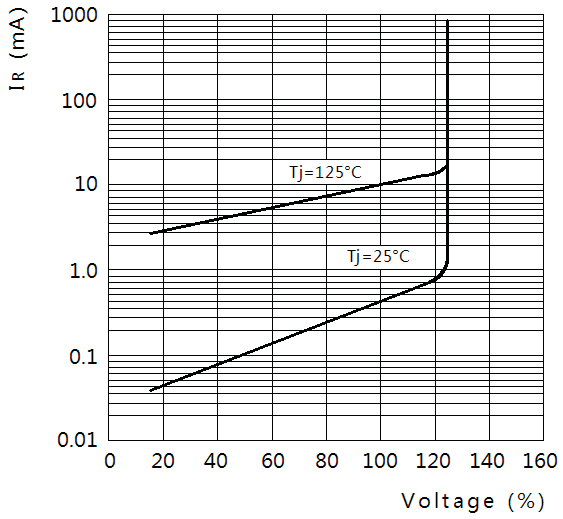
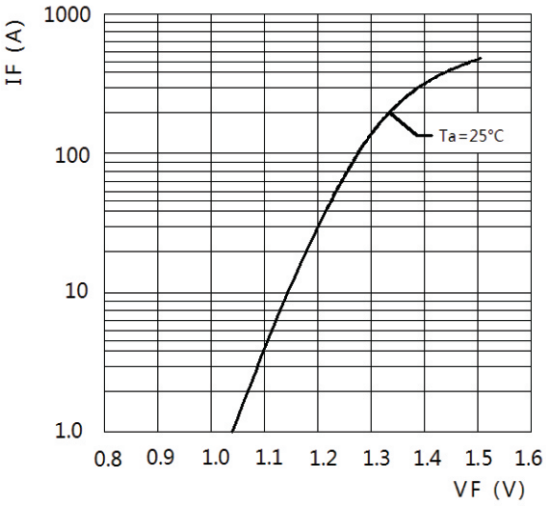
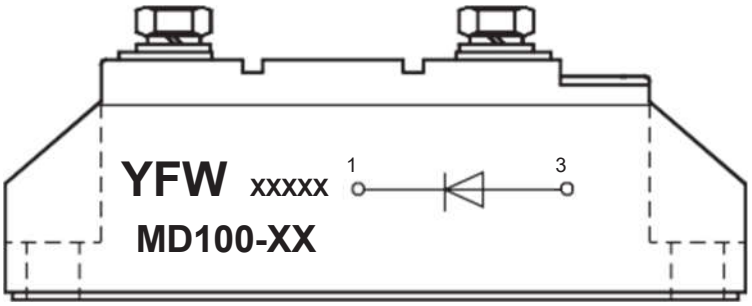


FIG4.Typic al Forward Characteristics Per Bridge Element



Marking Diagram



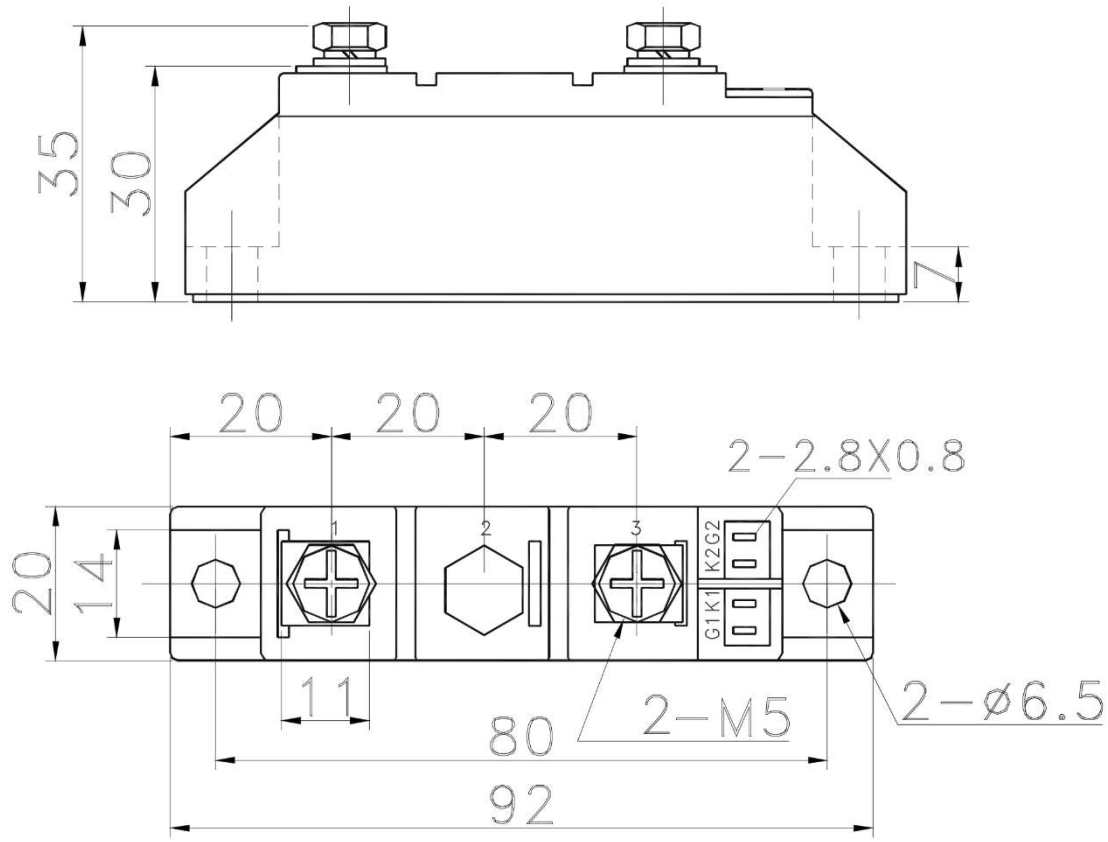
Ordering information

Model name	Package	Unit Weight	Base Quantity
MD100-XX	M15	-	10pcs/ Box

Package Dimensions

M15

unit: Millimeter



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