

Rectifier Module

V_{RRM} - 1200 to 2000V

I_(AV) - 100A

FEATURES

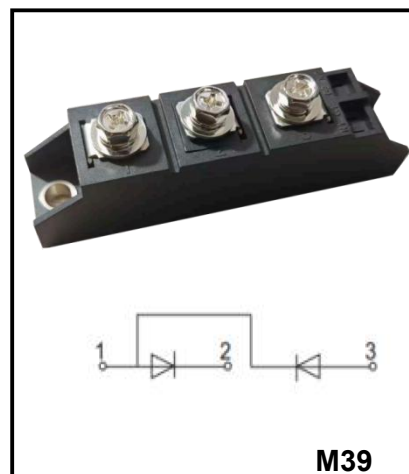
- ♦ Low reverse leakage current
- ♦ High surge current capability
- ♦ Compliant to RoHS directive 2011/65/EU

APPLICATIONS

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

MECHANICAL DATA

- ♦ Case: M39
- ♦ Polarity: Polarity symbols being marked on body
- ♦ Mounting torque: 25.0 kgf.cm max



Maximum Ratings @ Ta = 25°C unless otherwise noted

PARAMETER			SYMBOL	MDC100-12	MDC100-14	MDC100-16	MDC100-18	MDC100-20	UNIT
Maximum recurrent peak reverse voltage			V _{RRM}	1200	1400	1600	1800	2000	V
Average rectified output current	with heatsink, T _C =100℃		I _(AV)	100					A
Peak surge forward curre, nt8.3ms single half Sine-wave superimposed on rated load			I _{FSM}	1000					A
Rating for fusing, 1ms<t<8.3ms T _j =25℃, Rating of per diode			I ² t	11200					A ² s
Dielectric strengt, hterminals to case AC 1 minute			V _{dis}	2.5					KV
Peak Forward Voltage I _F =100A			V _F	1.3					V
Peak Reverse Current V _R =V _{RRM} , Pulse measurementRating of per diode	T _j =25℃ T _j =125℃		I _R	0.5 10					mA
Junction to case hermalresistance, with heatsink			R _{θJC}	0.13					℃/W
Junction temperature			T _J	-40~+150					℃
Storage temperature			T _{STG}	-40~+125					℃

Characteristic Curve

FIG 1 .Derating Curve For Output Rectified Current

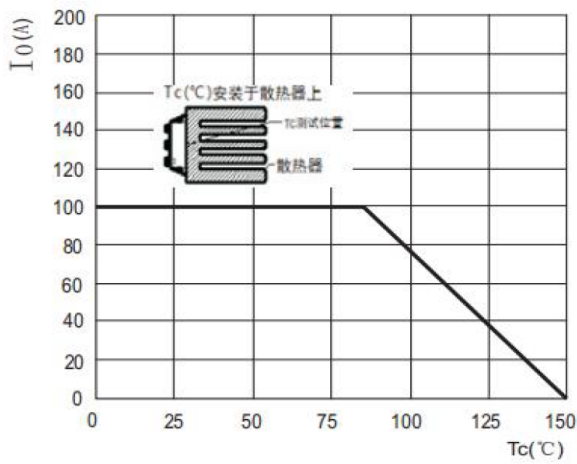


FIG2 .Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

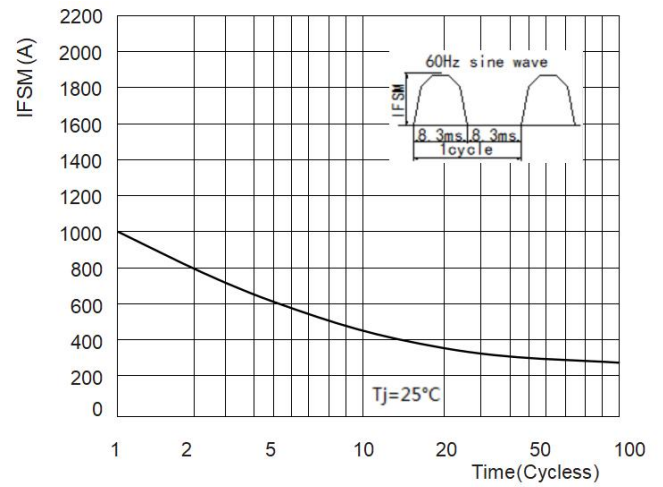


FIG3. Typical Reverse Characteristics Per Bridge Element

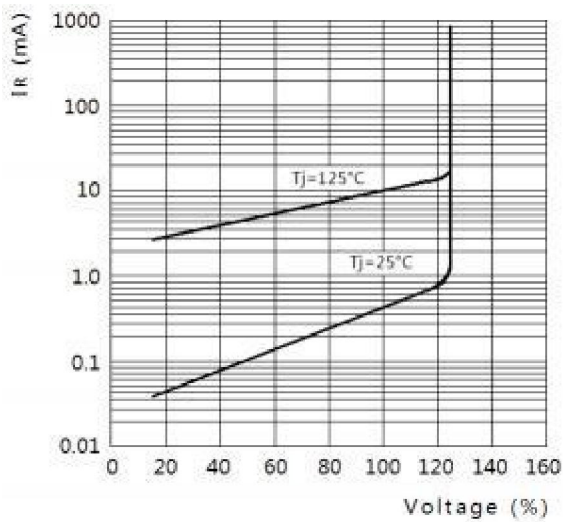
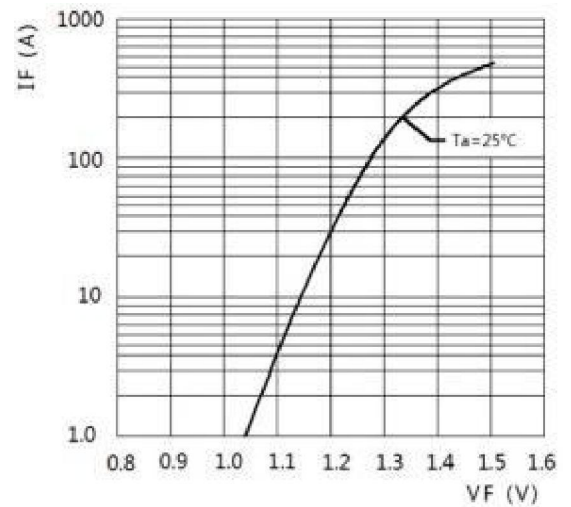
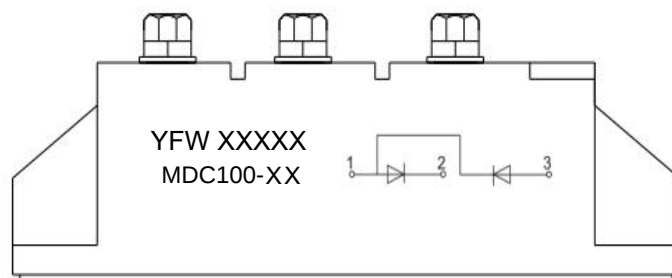


FIG4. Typical Forward Characteristics Per Bridge Element



Marking Diagram



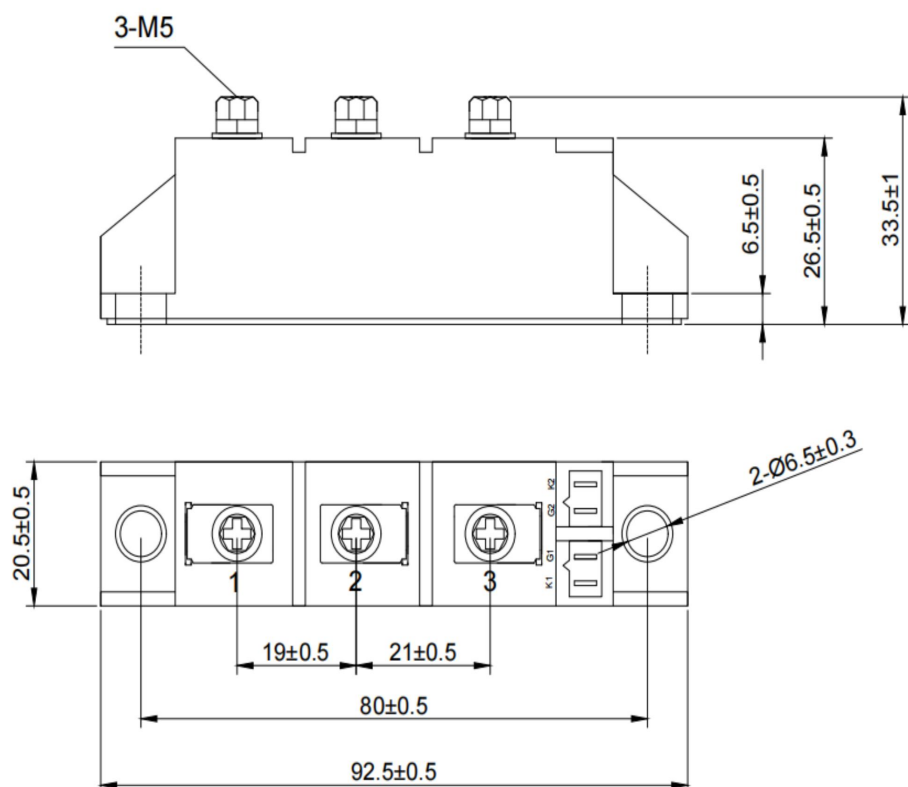
Ordering information

Model name	Package	Unit Weight	Base Quantity
MDC100-XX	M39	-	10pcs/ Box

Package Dimensions

M39

unit: Millimeter



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