

Rectifier module

V_{RRM} - 600 V

I_O - 100 A

FEATURES

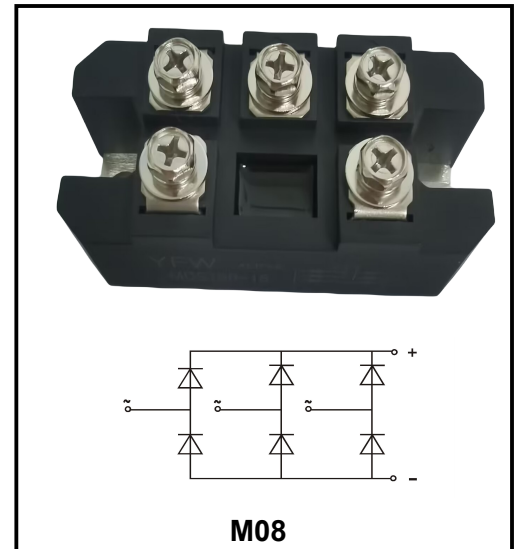
- ♦Low reverse leakage current
- ♦High surge current capability
- ♦Compliant to RoHS directive 2011/65/EU

APPLICATIONS

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

MECHANICAL DATA

- ♦Case:M08
- ♦Polarity: Polarity symbols being marked on body
- ♦Mounting torque:22.0 kgf.cm max
- ♦Weight: About150 grams



Maximum Ratings @ $T_a = 25^{\circ}\text{C}$ unless otherwise noted

PARAMETER	SYMBOL	MDS100-06	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Average rectified output current with heatsink, $T_c=100^{\circ}\text{C}$	I_O	100	A
Peak surge forward current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	1.5	KA
Rating for fusing, $1\text{ms} < t < 8.3\text{ms}$, $T_j=25^{\circ}\text{C}$, Rating of per diode	I^2t	11.4	$\text{A}^2\text{s} \times 10^3$
Junction temperature	T_J	$-40 \sim +150$	$^{\circ}\text{C}$
Storage temperature	T_{STG}	$-40 \sim +125$	$^{\circ}\text{C}$
Dielectric, strength terminals to case AC 1 minute	V_{dis}	2.5	KV
Peak Forward Voltage $I_F = 100\text{A}$	V_F	1.1	V
Peak Reverse Current $T_j=25^{\circ}\text{C}$	I_R	0.5	mA
$V_R=V_{RRM}$, Pulse measurement Rating of per diode $T_j=125^{\circ}\text{C}$		10	
Junction to case thermal resistance, with heatsink	$R_{\theta JC}$	0.9	$^{\circ}\text{C/W}$

Rating and Characteristic Curves

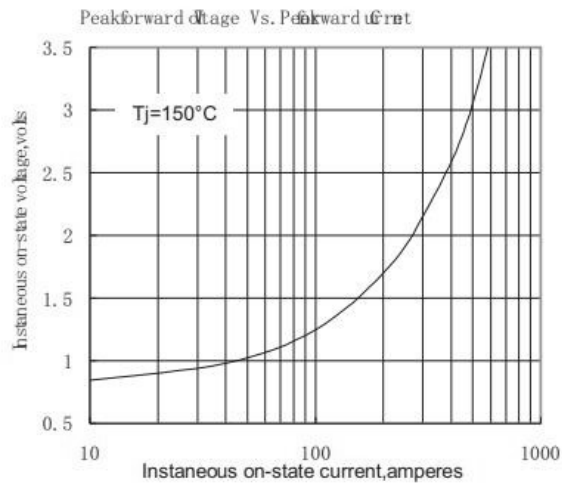


Fig.1

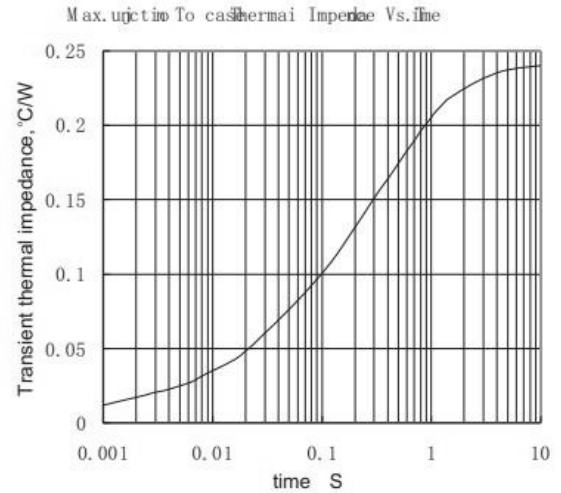
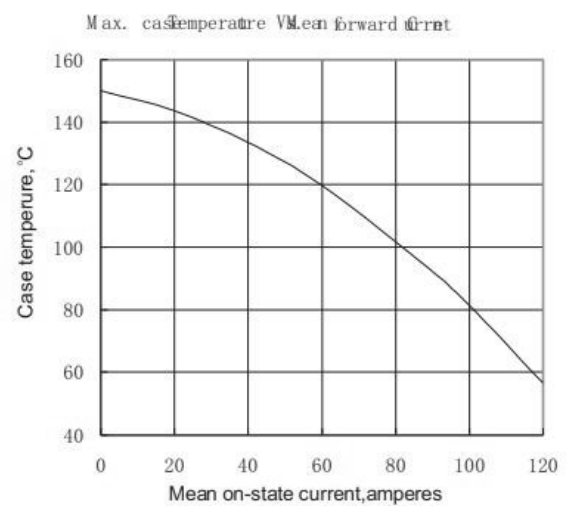
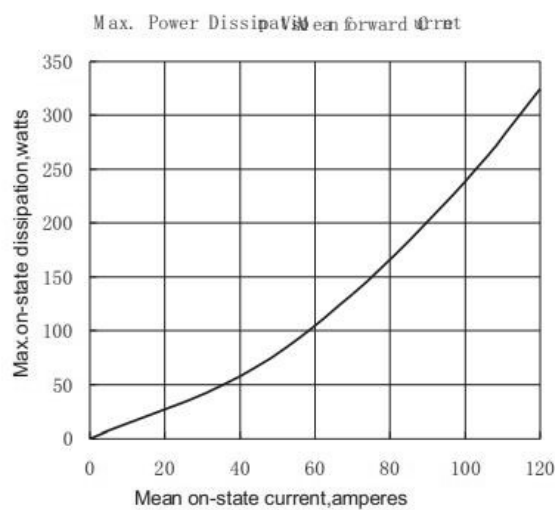
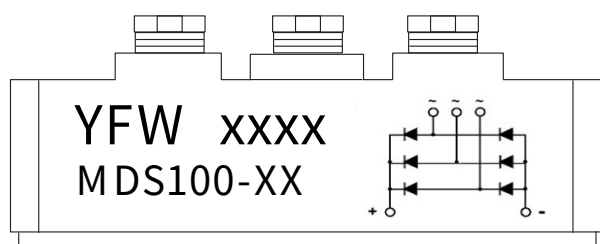


Fig.2



Marking Diagram



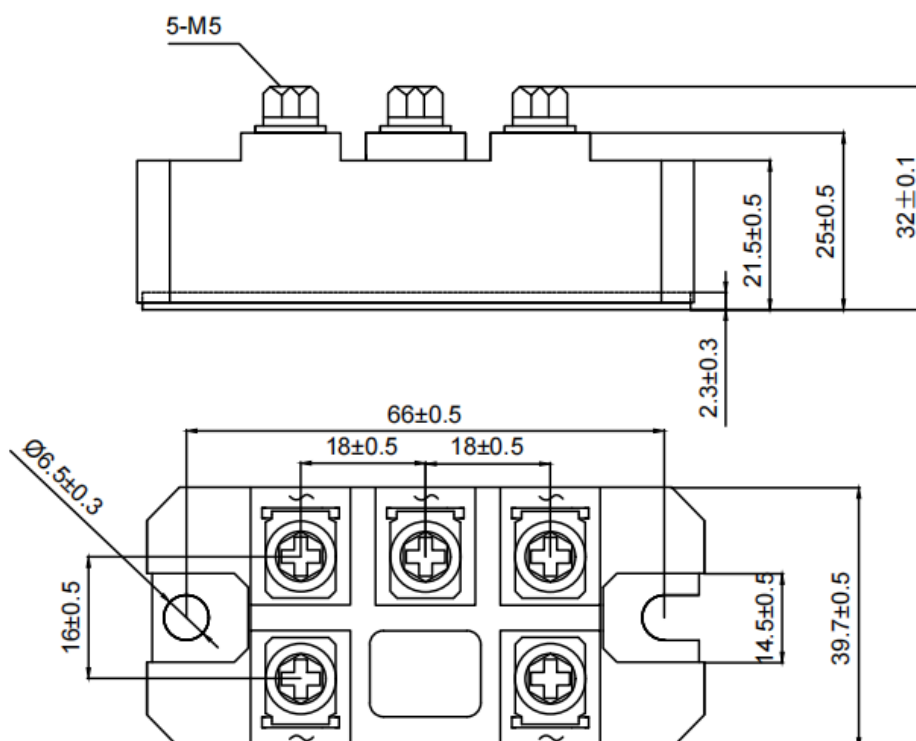
Ordering information

Model name	Package	Unit Weight	Base Quantity
MDS 100-XX	M08	5.29oz(150g)	10pcs/ Box

Package Dimensions

M08

unit: Millimeter



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