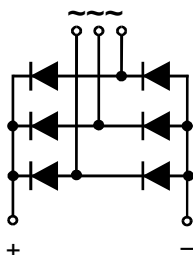


Feature

- International standard package
- Low forward voltage drop
- Isolation voltage 2500V~



Application

- DC power suppliers for apparatus device
- Input rectifying power supply for PWM converters
- Inverter welders

Maximum value

Symbol	Parameter	Rating							Unit
		MDS400-06F	MDS400-08F	MDS400-10F	MDS400-12F	MDS400-14F	MDS400-16F	MDS400-18F	
V_{RRM}	Peak reverse repetitive voltage	600	800	1000	1200	1400	1600	1800	V
V_{RSM}	Peak reverse non-repetitive voltage	700	900	1100	1300	1500	1700	1900	V

Symbol	Parameter	Test condition	Rating	Unit
I_o	Output DC current	Three-phase whole wave rectifying circuit $T_c:100^\circ\text{C}$	400	A
I_{FSM}	Forward surge current	$t=10\text{ms}, 50\text{HZ}, \text{sin}, T_{jm}$	6400	A
I^2t	I^2t value	$V_R = 0.6V_{RRM}, T_{jm}$	204800	A^2S
V_{ISO}	Isolation voltage	AC one min	2500	V
T_j	Operating junction temperature		-40 to +150	$^\circ\text{C}$
T_{jm}	Rated junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-40 to +125	$^\circ\text{C}$
M_d	Mounting torque (copper plate) M6		5±15%	N·m
	Mounting torque (terminal) M8 M12		7±15% 12±15%	N·m
W_t	weight		1100	g

Electrical characteristics

Symbol	Parameter	Test condition	Rating	Unit
I_{RRM}	Peak reverse repetitive current	Single-side heat dissipation, $V_R=V_{RRM}$, sine half wave, $T_j=150^\circ\text{C}$	10	mA
V_{FM}	Peak forward voltage	$I_{FM}=400\text{A}, T_j=25^\circ\text{C}$	1.3	V
$R_{th(j-c)}$	Thermal impedance (junction-case)	Single-side heat dissipation, sine half wave	0.14	$^\circ\text{C/W}$

Performance Curves

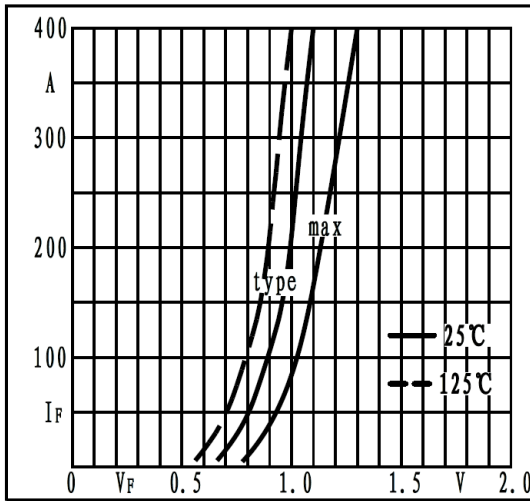


Fig1. Forward characteristics

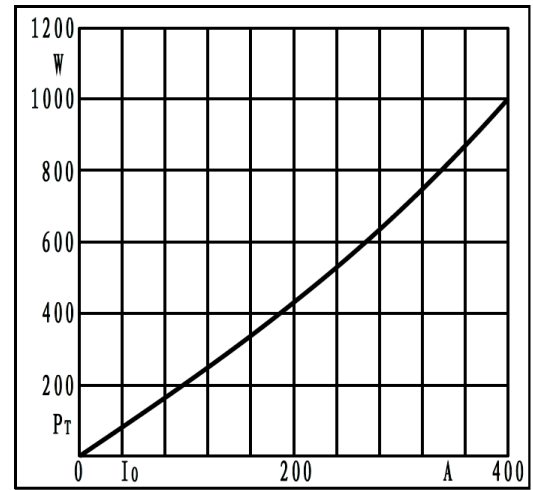


Fig2. Power dissipation

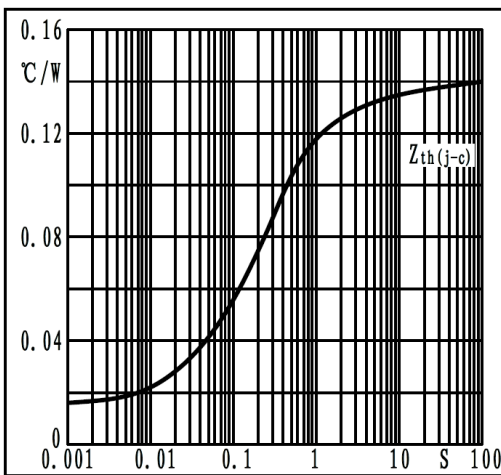


Fig3. Transient thermal impedance

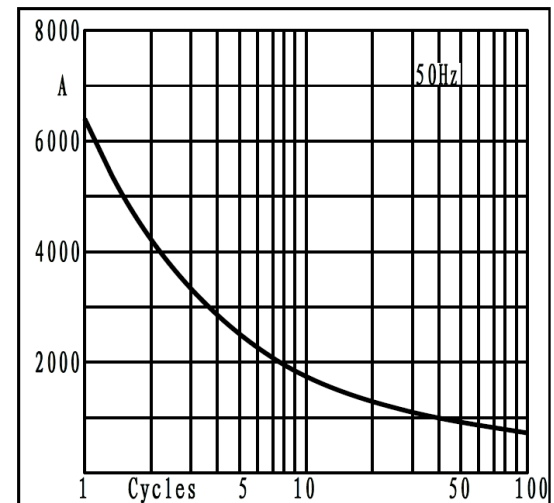


Fig4. Max non-repetitive forward surge current

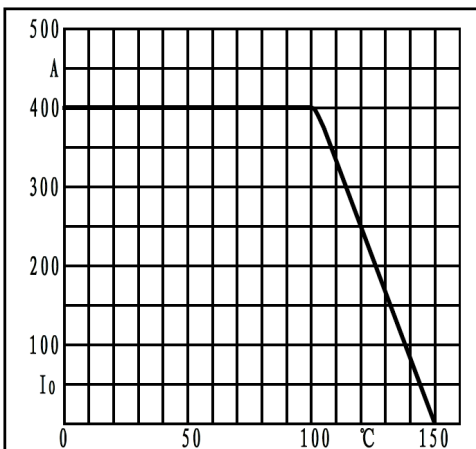
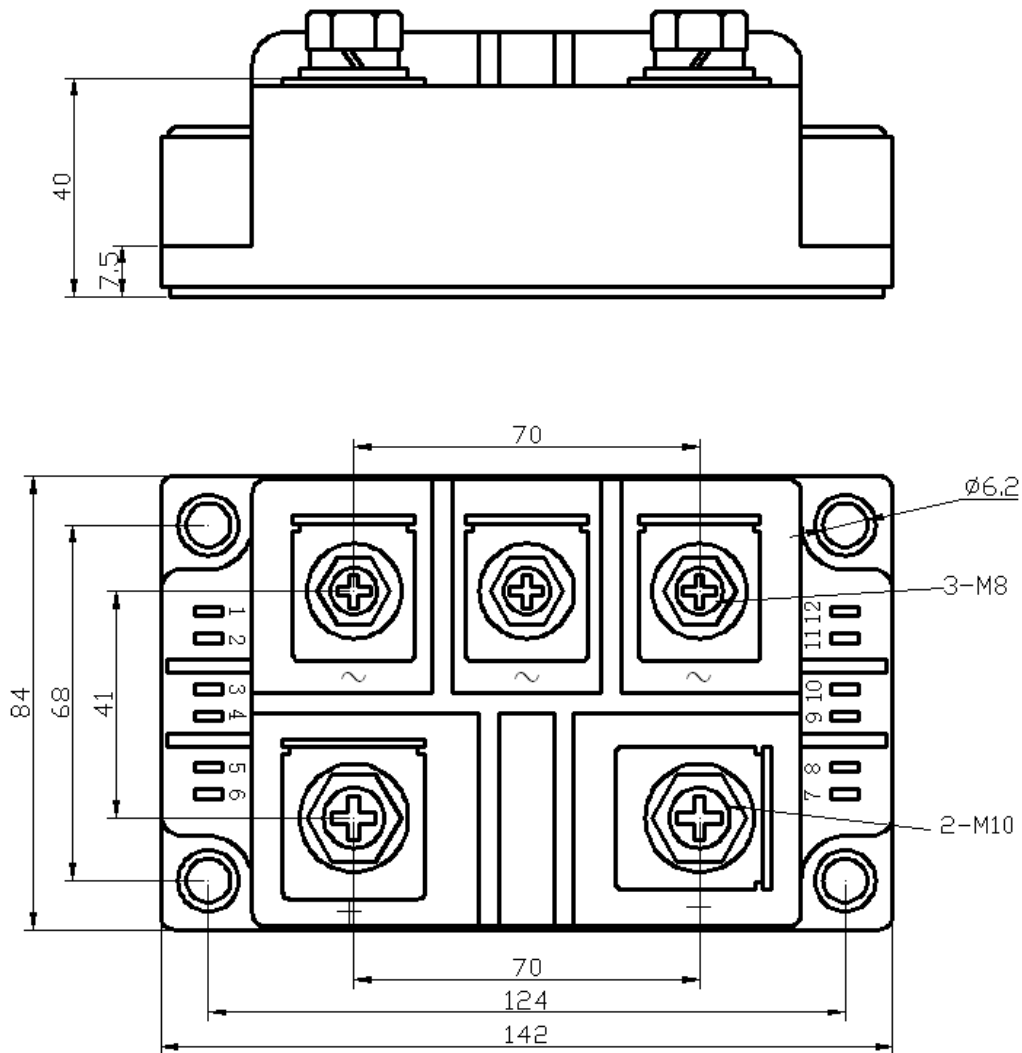


Fig5. Forward current derating curve

Dimension



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Bridge Rectifiers](#) category:

Click to view products by [GREGOO](#) manufacturer:

Other Similar products are found below :

[MB2510](#) [MB252](#) [MB356G](#) [MB358G](#) [GBJ1504-BP](#) [GBU15J-BP](#) [GBU15K-BP](#) [GBU4A-BP](#) [GBU4D-BP](#) [GBU6B-E3/45](#) [GSIB680-E3/45](#)
[DB101-BP](#) [DF01](#) [DF10SA-E345](#) [BU1508-E3/45](#) [KBPC50-10S](#) [RS405GL-BP](#) [G5SBA60-E3/51](#) [GBJ1502-BP](#) [GBU10J-BP](#) [GBU4J-BP](#)
[GBU6M](#) [GBU8D-BP](#) [GBU8J-BP](#) [GSIB1520-E3/45](#) [2KBB10](#) [36MB140A](#) [TB102M](#) [MB1510](#) [MB258](#) [MB6M-G](#) [MB86](#) [TL401G](#)
[MDA920A2](#) [TU602](#) [TU810](#) [BR1005-BP](#) [BR101-BP](#) [BR84DTP204](#) [BU2008-E3/51](#) [36MB100A](#) [36MT160](#) [KBPC25-02](#) [VS-2KBB60](#)
[DF06SA-E345](#) [DF1510S](#) [VS-40MT160PAPBF](#) [GBU4G-BP](#) [GBJ2506-BP](#) [GBU6B-E3/51](#)