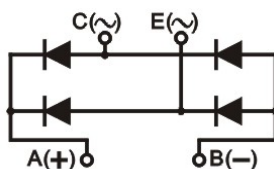


Feature

- 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
		MDQ200-06F	MDQ200-08F	MDQ200-10F	MDQ200-12F	MDQ200-14F	MDQ200-16F	MDQ200-18F	
VRRM	Peak reverse repetitive voltage	600	800	1000	1200	1400	1600	1800	V
VRSM	Peak reverse non-repetitive voltage	700	900	1100	1300	1500	1700	1900	V

Symbol	Parameter	Test condition	Rating	Unit
Io	Output DC current	Single-phase whole wave rectifying circuit Tc:100 °C	200	A
IFSM	Forward surge current	t=10ms,50Hz,sin,Tjm	2600	A
I ² t	I ² t value	VR = 0.6VRRM, Tjm	33800	A ² S
VISO	Isolation voltage	AC one min	2500	V
Tj	Operating junction temperature		-40 to +150	°C
Tjm	Rated junction temperature		150	°C
Tstg	Storage temperature		-40 to +150	°C
Md	Mounting torque (copper plate) M6		5±15%	N·M
	Mounting torque (terminal) M6		5±15%	N·M
Wt	weight		300	g

Electrical characteristics

Symbol	Parameter	Test condition	Rating	Unit
IRRM	Peak reverse repetitive current	Single-side heat dissipation, VR=VRRM, sine half wave,Tj=150 °C	8	mA
VFM	Peak forward voltage	IFM =200A, Tj=25 °C	1.2	V
Rth(j-c)	Thermal impedance (junction-case)	Single-side heat dissipation, sine half wave	0.2	°C/W

Performance Curves

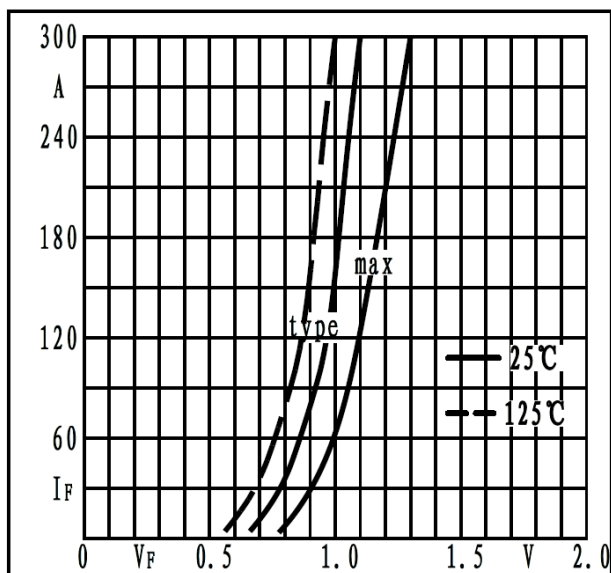


Fig1. Forward characteristics

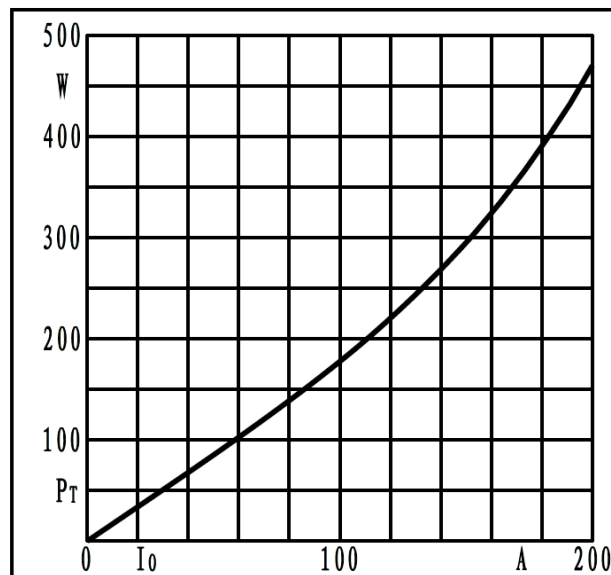


Fig2. Power dissipation

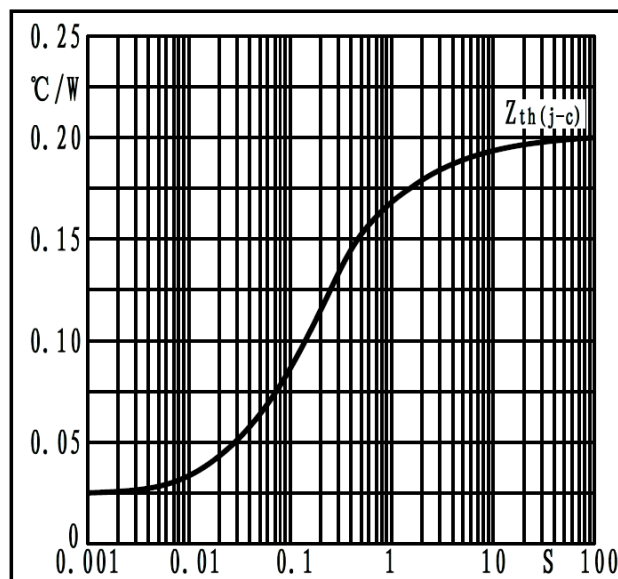
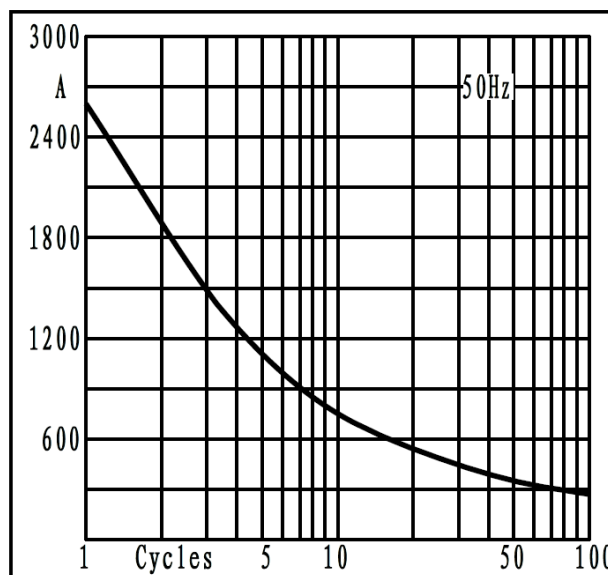


Fig3. Transient thermal impedance

Fig4. Max non-repetitive forward
surge current

Performance Curves

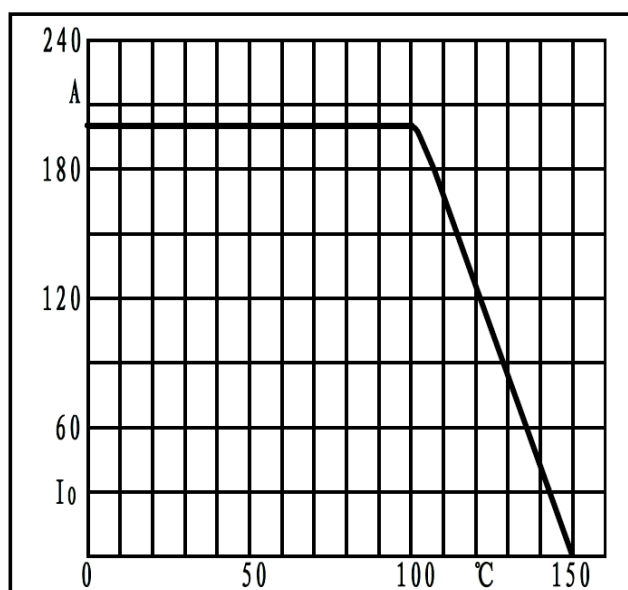


Fig5. Forward current derating curve

Dimension

