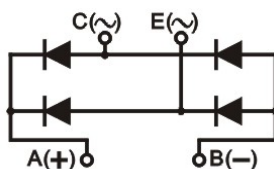


Feature

- 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
		MDQ160-06F	MDQ160-08F	MDQ160-10F	MDQ160-12F	MDQ160-14F	MDQ160-16F	MDQ160-18F	
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

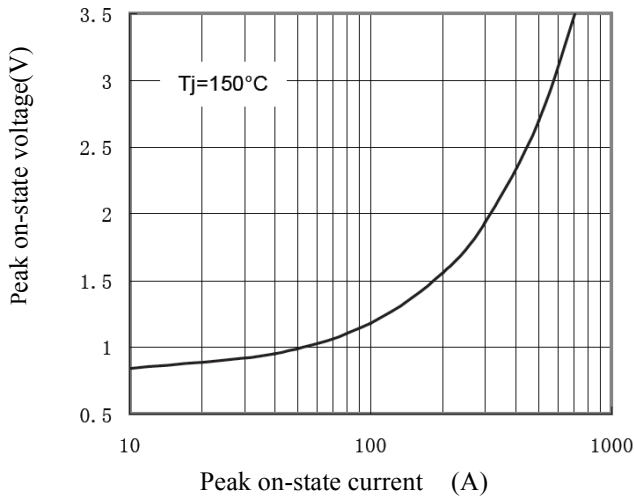
Symbol	Parameter	Test condition	Rating	Unit
Io	Output DC current	Single-phase whole wave rectifying circuit Tc:100 °C	160	A
IFSM	Forward surge current	t=10ms,50Hz,sin,Tjm	2100	A
I ² t	I ² t value	VR = 0.6VRRM, Tjm	22100	A ² S
VISO	Isolation voltage	AC one min	2500	V
Tj	Operating junction temperature		-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

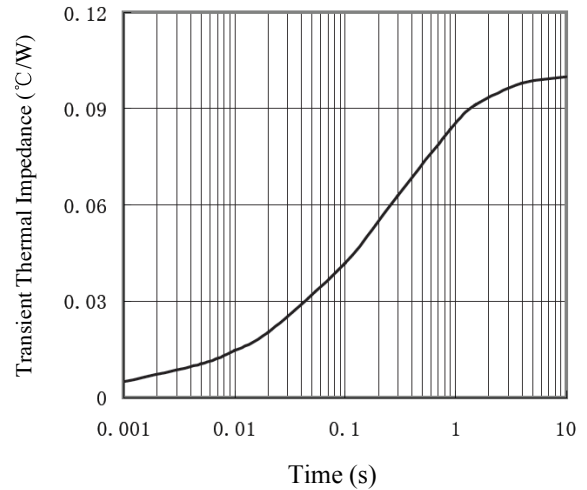
Symbol	Parameter	Test condition	Rating	Unit
IRRM	Peak reverse repetitive current	Single-side heat dissipation, VR=VRRM, sine half wave, Tj=150 °C	15	mA
VFM	Peak forward voltage	IFM =200A, Tj=25 °C	1.38	V
Rth(j-c)	Thermal impedance (junction-case)	Single-side heat dissipation, sine half wave	0.1	°C/W

Performance Curves

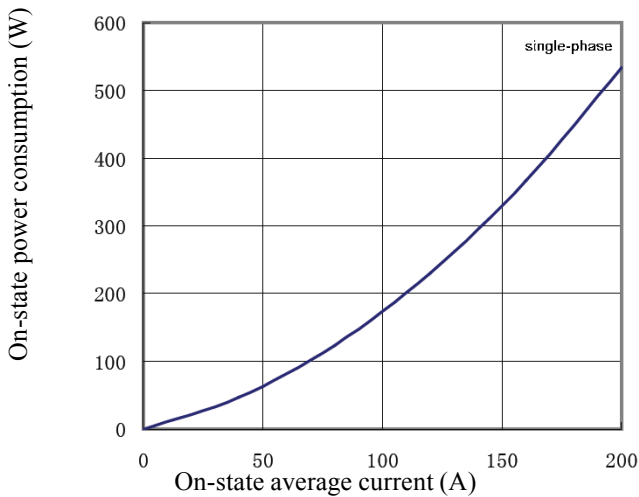
Forward current vs. Forward voltage



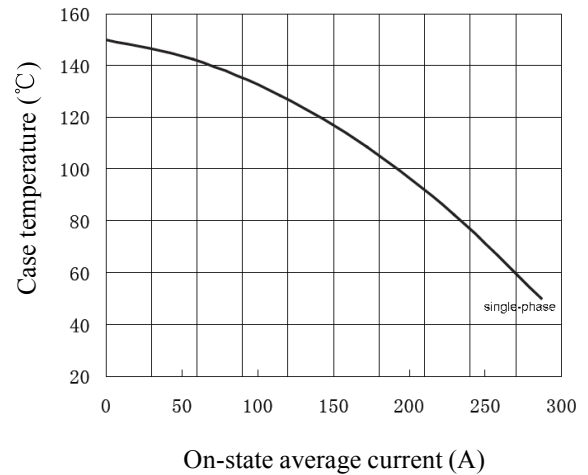
Thermal Impedance (junction to case)



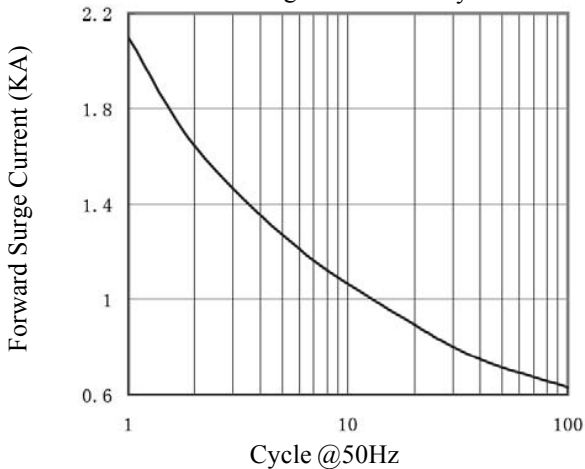
Power Consumption vs. Average Current



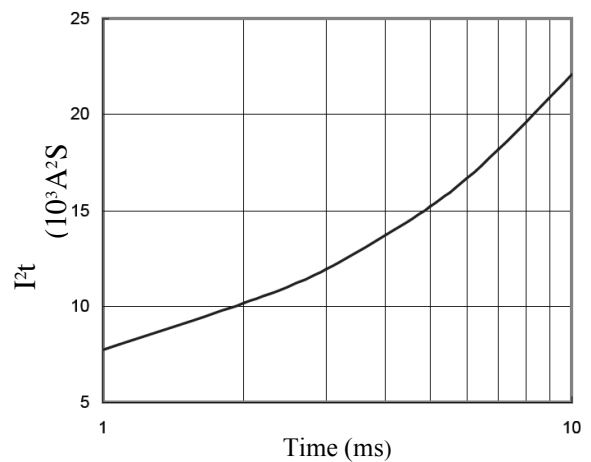
Case Temperature vs. O-state Average Current



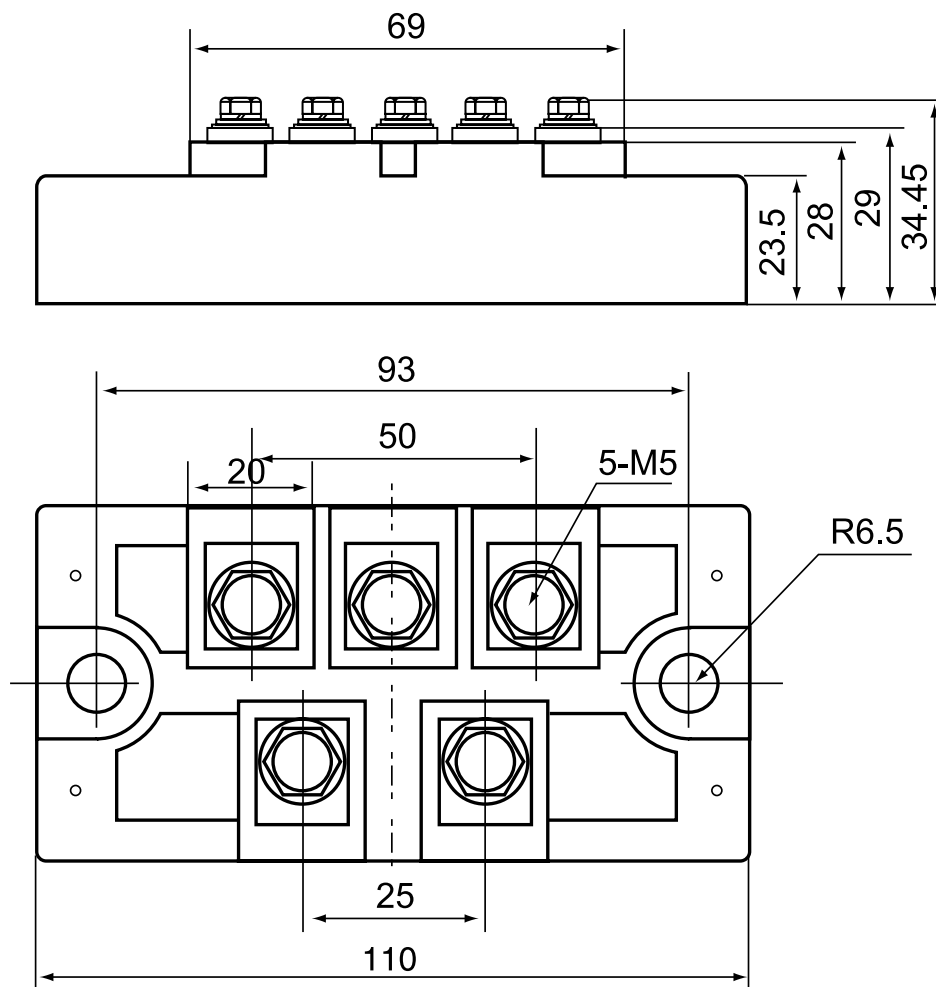
Forward Surge Current vs. Cycle



I^2t Characteristics



Dimension



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