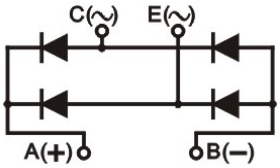
Feature

- 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
		MDQ150 -12	MDQ150 -16	
V_{RRM}	Peak reverse repetitive voltage	1200	1600	V
V_{RSM}	Peak reverse non-repetitive voltage	1300	1700	V

Symbol	Parameter	Test condition	Rating	Unit
I_O	Output DC current	Single-phase whole wave rectifying circuit Tc:100 ℃	150	A
I_{FSM}	Forward surge current	t=10ms,50Hz,sin,Tjm	2100	A
I^2t	I^2t value	V_R = 0.6V_{RRM}， Tjm	22100	A^2S
V_{ISO}	Isolation voltage	AC one min	2500	V
Tj	Operating junction temperature		-40 to +150	℃
Tjm	Rated junction temperature		150	℃
Tstg	Storage temperature		-40 to +150	℃
Md	Mounting torque（copper plate）M6		5±15%	N·M
	Mounting torque（terminal) M6		5±15%	N·M
Wt	weight		320	g

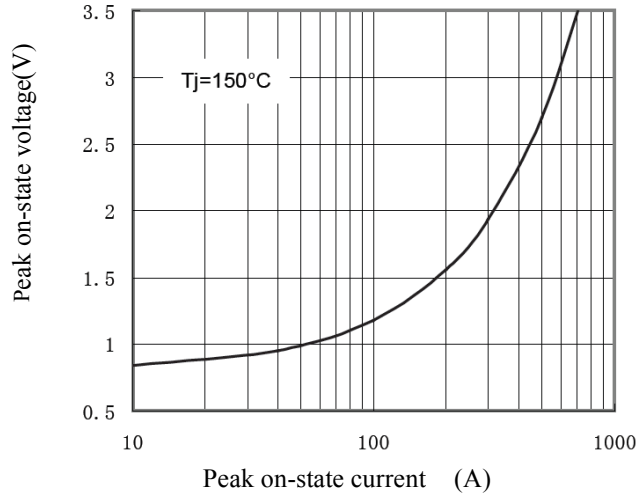
Electrical characteristics

Symbol	Parameter	Test condition	Rating	Unit
I_{RRM}	Peak reverse repetitive current	Single-side heat dissipation, V_R=V_{RRM}, sine half wave,Tj=150℃	15	mA
V_{FM}	Peak forward voltage	I_{FM} =200A, Tj=25 ℃	1.38	V
Rth(j-c)	Thermal impedance（junction-case）	Single-side heat dissipation, sine half wave	0.1	℃/W

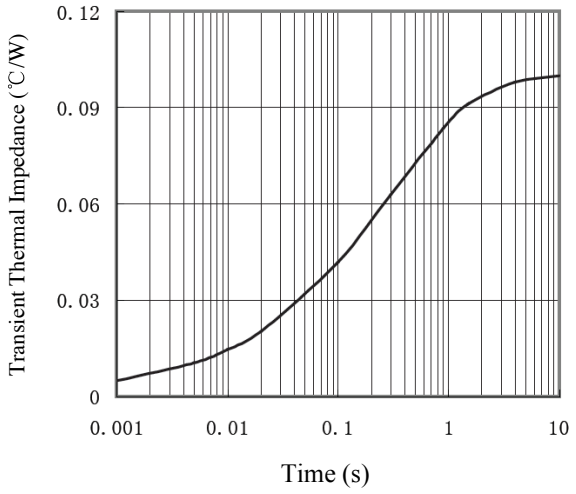
Greegoo Electric Co.,Ltd
Add:Jinye Mansion, Lvzhuang, Liushi, Yueqing, Zhejiang, 325604 P.R. China
Tel: +86 577 62776000 Fax: +86 577 62776006
Homepage://www.greegoo.com E-mail: peter@greegoo.com

Performance Curves

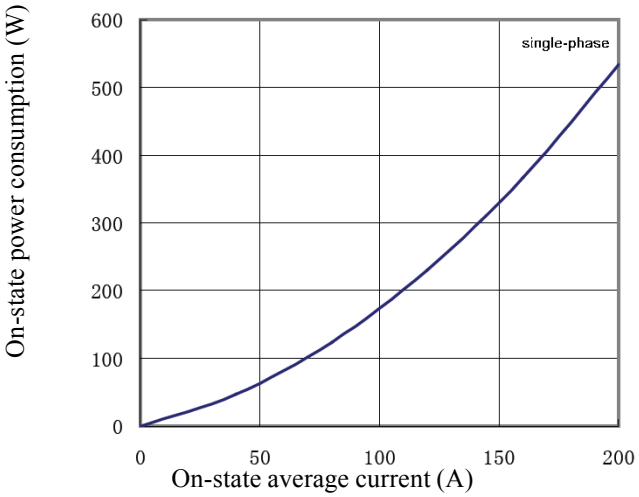
Forward current vs. Forward voltage



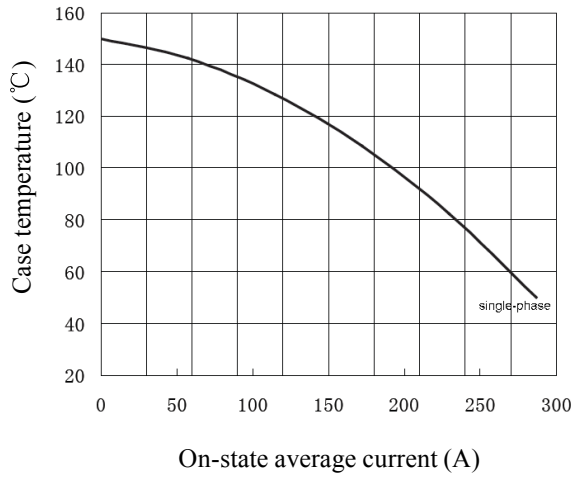
Thermal Impedance (junction to case)



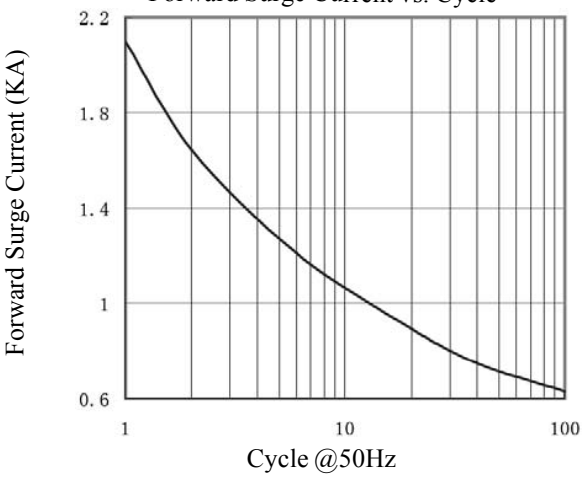
Power Consumption vs. Avergage Current



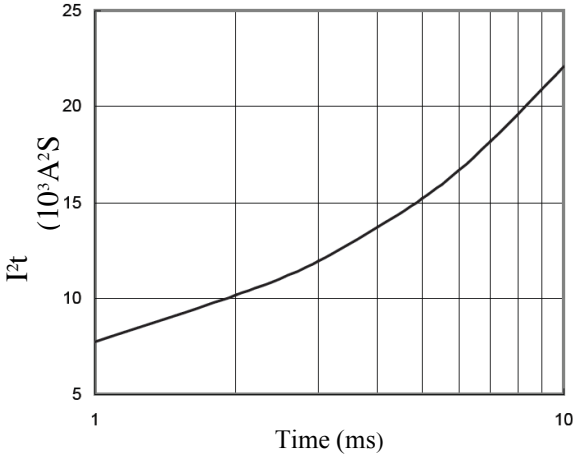
Case Temperature vs. O-state Average Current



Forward Surge Current vs. Cycle

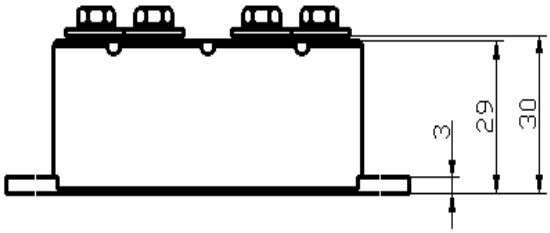


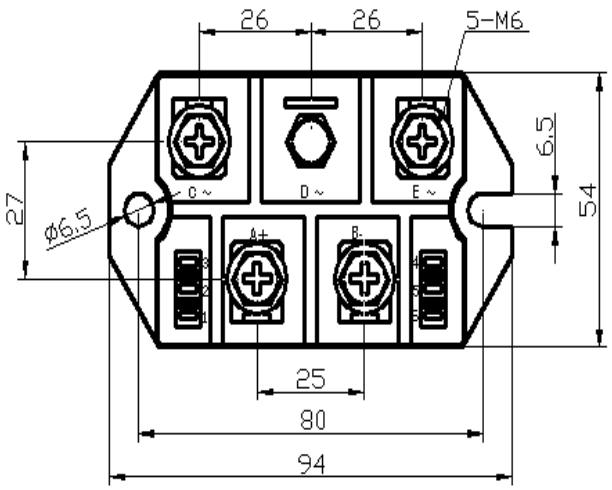
I^2t Characteristics



Greegoo Electric Co.,Ltd
Add:Jinye Mansion, Lvzhuang, Liushi, Yueqing, Zhejiang, 325604 P.R. China
Tel: +86 577 62776000 Fax: +86 577 62776006
Homepage://www.greegoo.com E-mail: peter@greegoo.com

Dimension





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Homepage://www.greegoo.com E-mail: peter@greegoo.com