

Schottky Rectifier Modules



V_{RRM} 200V

I_{FAV} 300 A

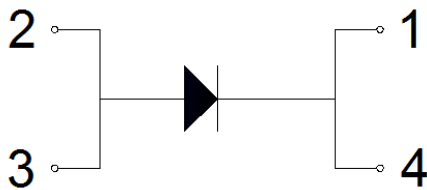
Applications

- Plating Power Supply
- High Frequency Power Supply
- High Current Switching Power Supply
- Reverse Battery Protection
- Welding machine

Features

- High Frequency operation
- Very Low Forward Voltage
- Low I_{rm} values
- Low noise switching
- May be Paralleled for High Current Output
- Designed and qualified for industrial level

Circuit



Maximum Ratings

Symbol	Conditions	Values	Units
V _R		200	V
I _{F(AV)}	T _C =95°C, Per Module	300	A
I _{FSM}	1/2 Cycle, 50Hz, Sine	4800	A
I ² t	T _J =25°C, t=10ms, 50Hz, Sine	115200	A ² s
T _J		-40 to +150	°C
T _{STG}		-40 to +125	°C
M _D	Recommended (M4), mounting torque	1.1~1.4	N·m
M _T	Recommended (M4), terminal torque	1.1~1.4	N·m
Weight		27	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per Module	0.14	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I _{RM}	V _R =200V	--	--	1	mA
	V _R =200V, T _J =125°C	--	--	10	mA
V _F	I _F =300A, T _J =25°C	--	0.91	0.95	V
	I _F =300A, T _J =125°C	--	0.88	0.90	



Performance Curves

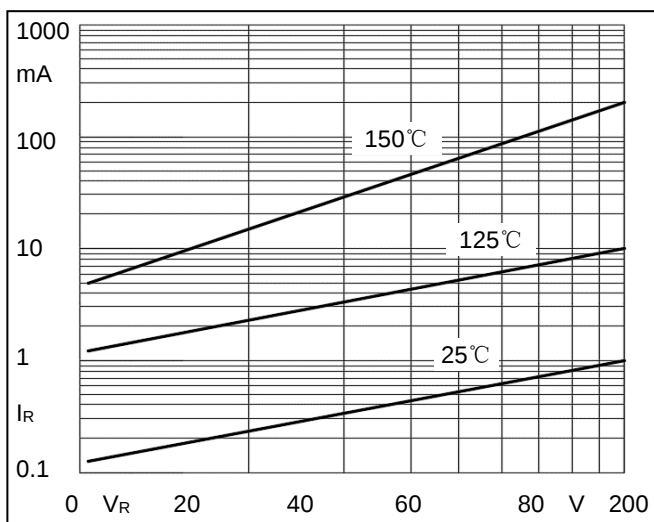
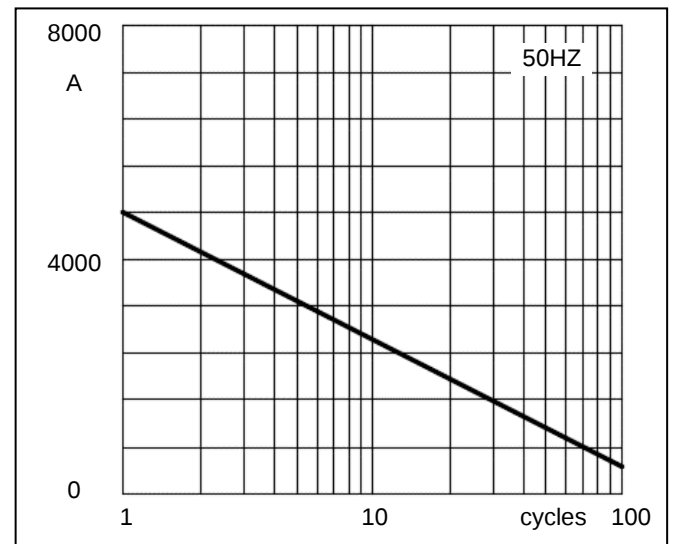
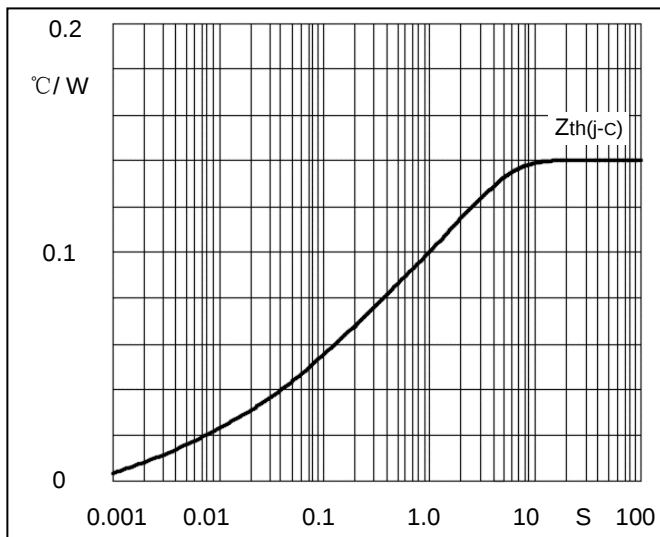
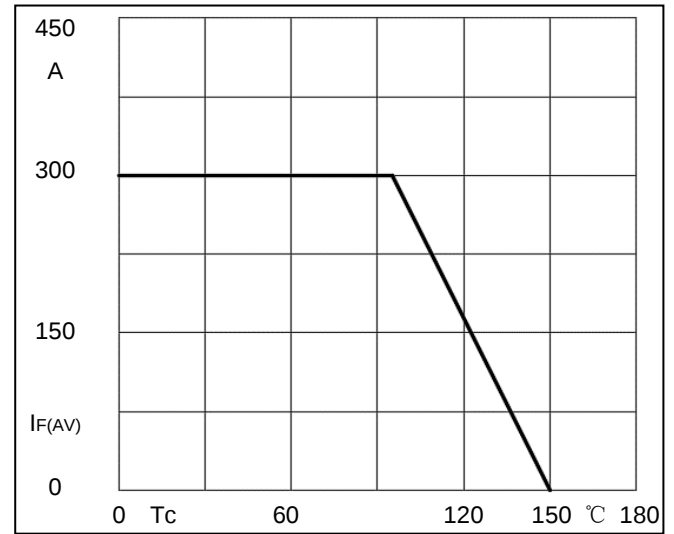
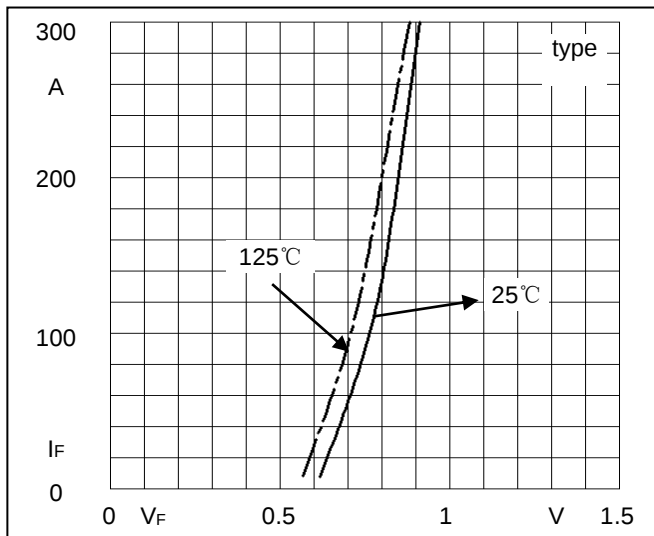
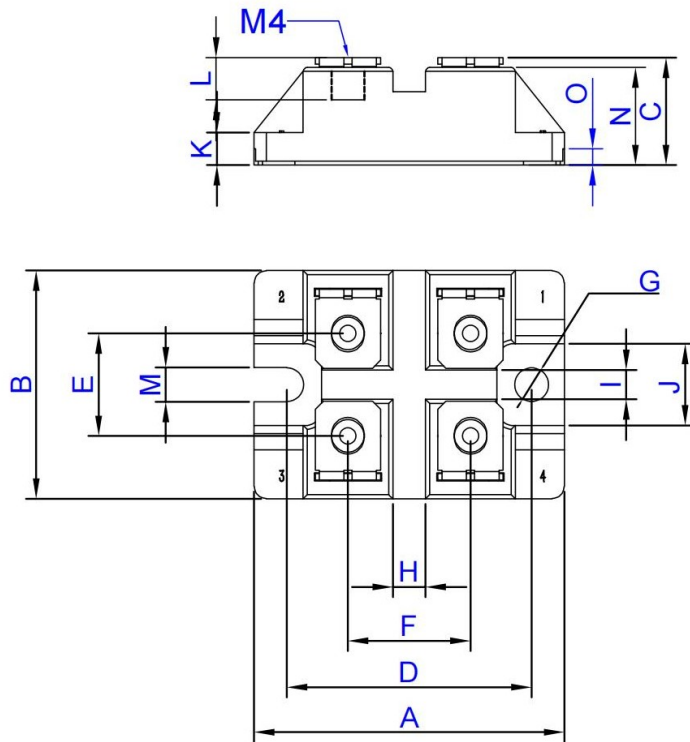


Fig5. Typical Reverse Current

Package Outline Information

CASE: FJ



DIM	Min (mm)	Max (mm)	Note
A	37.5	38.5	
B	27.5	28.5	
C	12.8	13.5	
D	29.5	30.5	
E	12.1	13.1	
F	14.5	15.5	
G	4.0	4.4	Ø
H	3.7	4.3	
I	3.3	3.9	
J	9.5	10.5	
K	3.7	4.3	
L	5.0	5.5	
M	4.0	4.4	
N	11.7	12.3	
O	1.8	2.2	

Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner EPE	252	246	25	25
Inner Box	290	252	40	25
Outer Carton	300	270	280	150



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