

Schottky Rectifier Modules



V_{RRM} 200V
I_{FAV} 100 A × 2

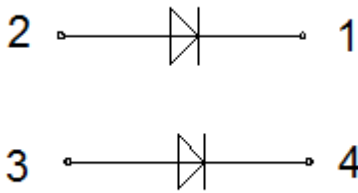
Applications

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

Features

- 2 Independent In 1 Package
- High Frequency Operation
- Low Forward Voltage
- Dual Diode Construction; 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 =125°C, Per Leg	100	A
	T _C =125°C, Per Module	200	A
I _{FSM}	1/2 Cycle, 60Hz, Sine	1500	A
I ² t	T _J =45°C, t=8.3ms, 60Hz, Sine	11250	A ² s
T _J		-40 to +150	°C
T _{STG}		-40 to +150	°C
Visol	3000V AC 1min	1	mA
Torque	To Sink Recommended (M4)	0.6~1.2	N·m
Torque	To Terminal Recommended (M4)	0.6~1.1	N·m
Weight		27	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.32	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I _{RM}	V _R =200V	--	--	5	mA
	V _R =200V, T _J =125°C	--	--	200	mA
V _F	I _F =100A, T _J =25°C	--	0.87	0.92	V
	I _F =100A, T _J =125°C	--	0.79	0.85	



Performance Curves

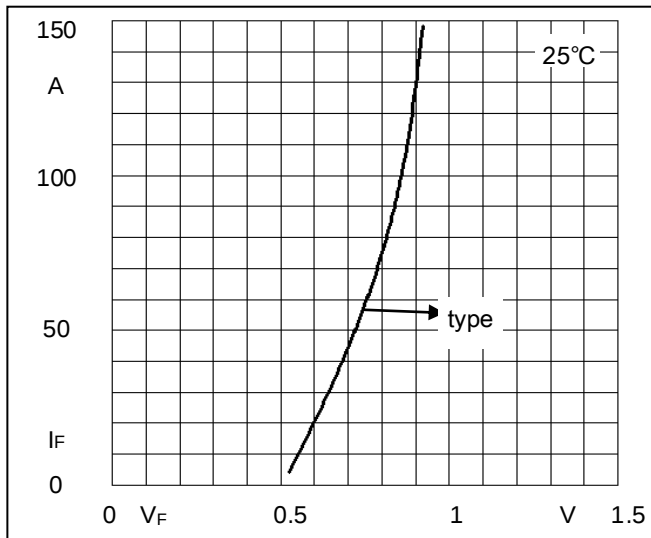


Fig1. Forward Voltage Drop vs Forward Current

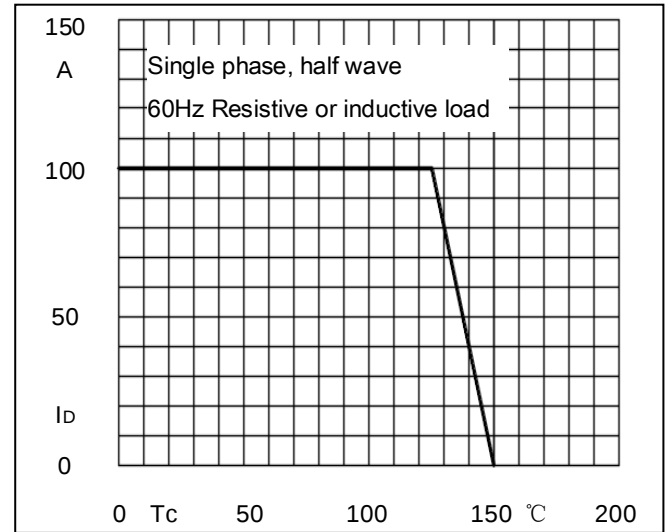


Fig2. Forward Current Derating Curve

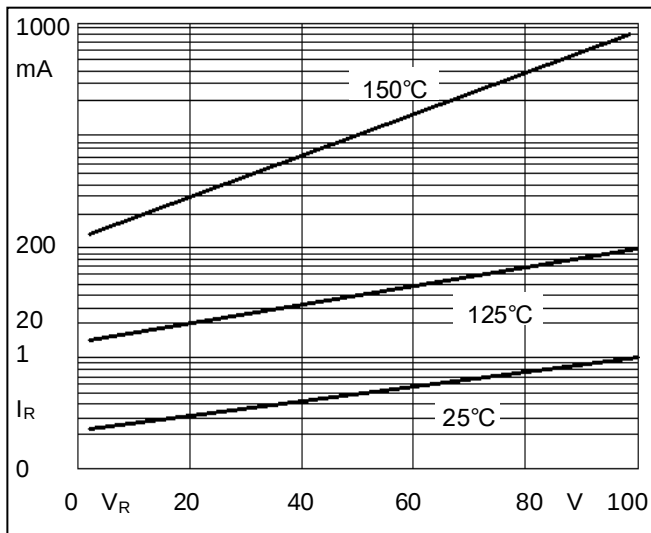
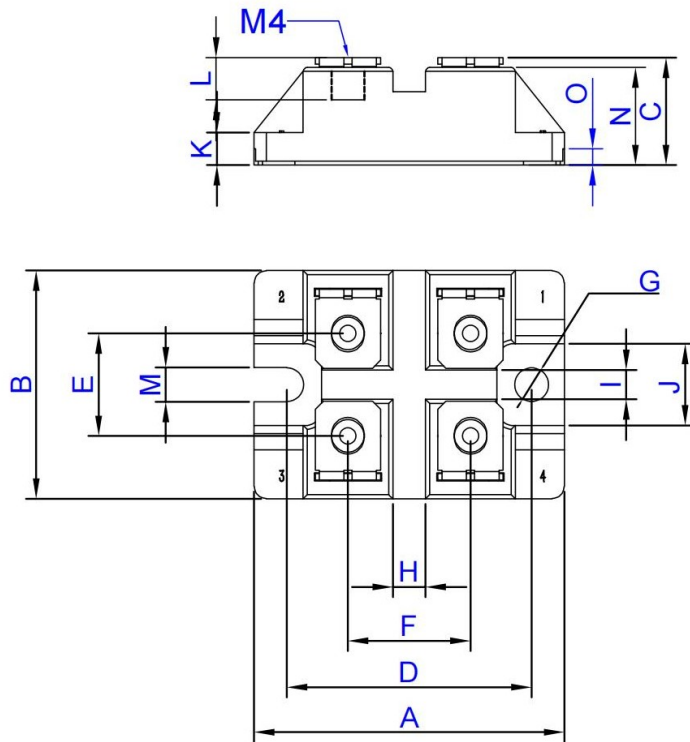


Fig3. Typical Reverse Current

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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