

Schottky Rectifier Modules



V_{RRM} 100V

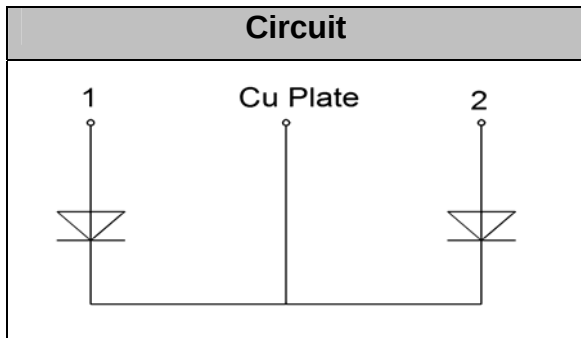
I_{FAV} 800 A

Applications

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

Features

- 175°C T_J Operation
- Center Tap Module
- High Frequency Operation
- Low Forward Voltage
- Dual Diode Construction; May be Paralleled for High Current Output
- Lead (Pb)-free
- Designed and qualified for industrial level



Maximum Ratings

Symbol	Conditions	Values	Units
V _R		100	V
I _{F(AV)}	T _C =125°C, Per Diode	400	A
	T _C =125°C, Per Module	800	A
I _{FSM}	1/2 Cycle, 60Hz, Sine	5800	A
I ² t	T _J =45°C, t=8.3ms, 60Hz, Sine	168200	A ² s
T _J		-40 to +150	°C
T _{STG}		-40 to +150	°C
Torque	Recommended (M6)	3~4.7	N·m
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Weight		92	g

Thermal Characteristics

Symbol	Conditions	Values	Units
R _{th(j-c)}	Per diode	0.3	°C/W

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I _{RM}	V _R =100V	--	--	5	mA
	V _R =100V, T _J =125°C	--	--	200	mA
V _F	I _F =400A, T _J =25°C	--	0.85	0.89	V
	I _F =400A, T _J =125°C	--	0.77	0.82	



Performance Curves

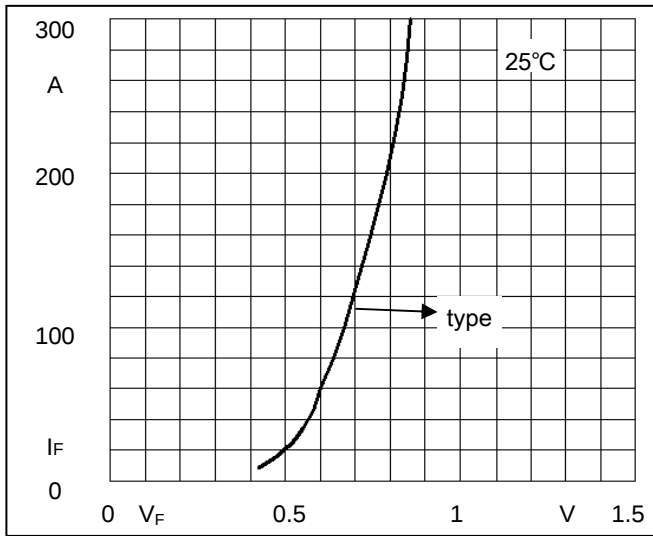


Fig1. Forward Voltage Drop vs Forward Current

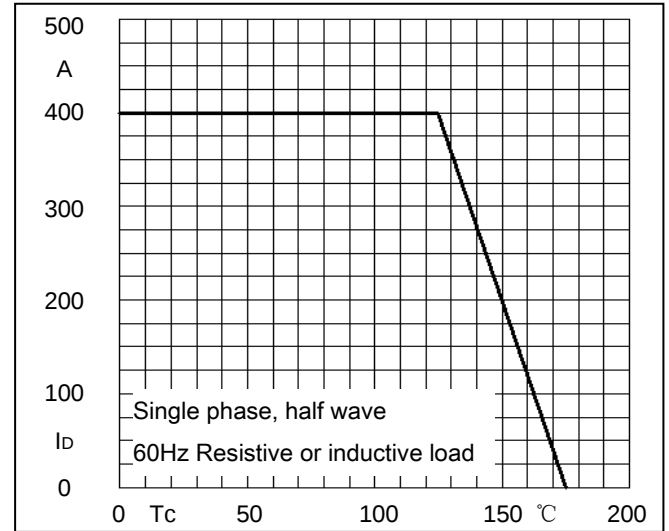


Fig2. Forward Current Derating Curve

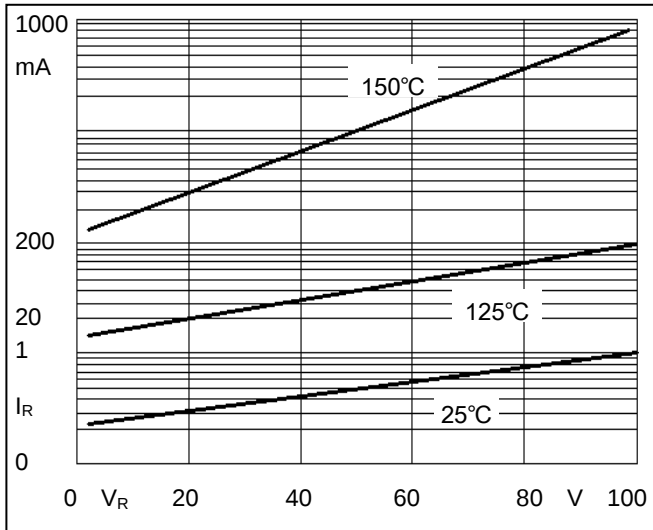
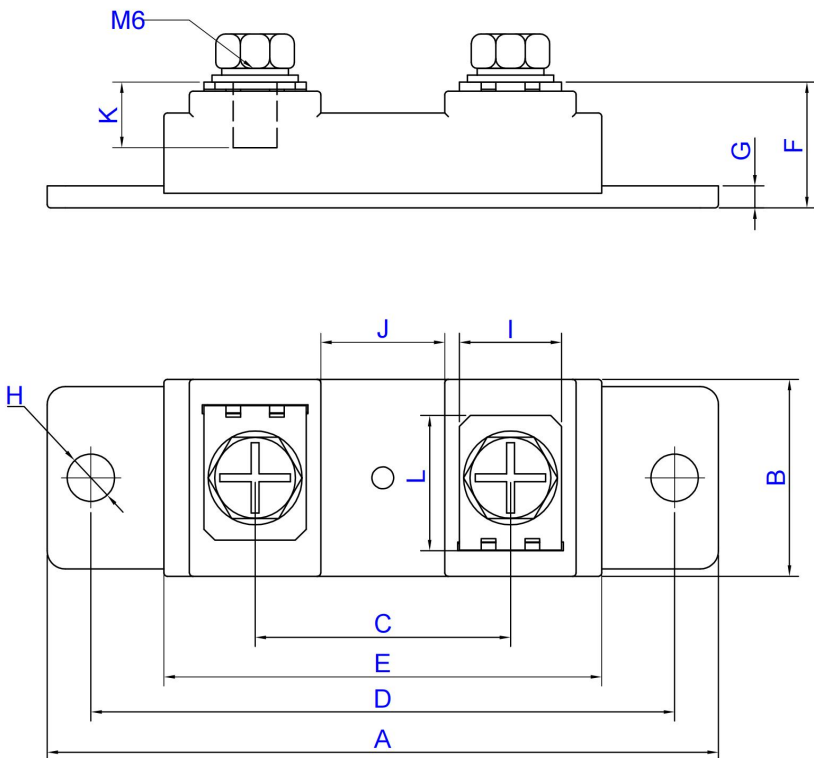


Fig3. Typical Reverse Current

Package Outline Information

CASE: F3



DIM	Min (mm)	Max (mm)	Note
A	91.5	92.5	
B	26.5	27.5	
C	34.5	35.5	
D	79.5	80.5	
E	59.5	60.5	
F	16.5	17.5	
G	2.8	3.2	
H	6.2	6.8	Ø
I	13.8	14.2	
J	16.5	17.5	
K	8.5	9.5	
L	18.2	18.8	

Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	40	10
Outer Carton	545	295	240	120



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