

Schottky Rectifier Modules



V_{RRM} 100V

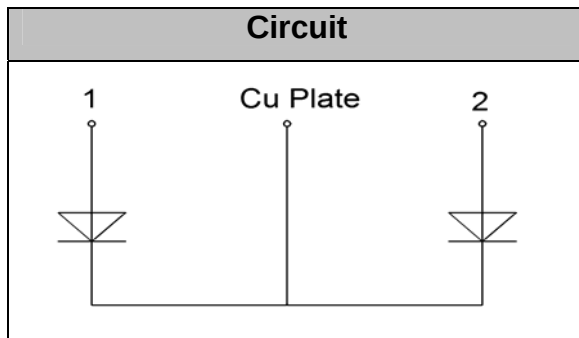
I_{FAV} 600 A

Applications

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

Features

- 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
$I_{F(AV)}$	$T_C=125^{\circ}\text{C}$, Per Leg	300	A
	$T_C=125^{\circ}\text{C}$, Per Module	600	A
I_{FSM}	1/2 Cycle, 60Hz, Sine	4000	A
I^2t	$T_J=45^{\circ}\text{C}$, $t=8.3\text{ms}$, 60Hz, Sine	80000	A^2s
T_J		-40 to +150	$^{\circ}\text{C}$
T_{STG}		-40 to +150	$^{\circ}\text{C}$
Torque	Recommended (M6)	4.5	N·m
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Weight		92	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	0.28	$^{\circ}\text{C/W}$

Electrical Characteristics

Symbol	Conditions	Values			Units
		Min.	Typ.	Max.	
I_{RM}	$V_R=100\text{V}$	--	--	1	mA
	$V_R=100\text{V}$, $T_J=125^{\circ}\text{C}$	--	--	50	mA
V_F	$I_F=300\text{A}$, $T_J=25^{\circ}\text{C}$	--	0.84	0.86	V
	$I_F=300\text{A}$, $T_J=125^{\circ}\text{C}$	--	0.74	0.78	



Performance Curves

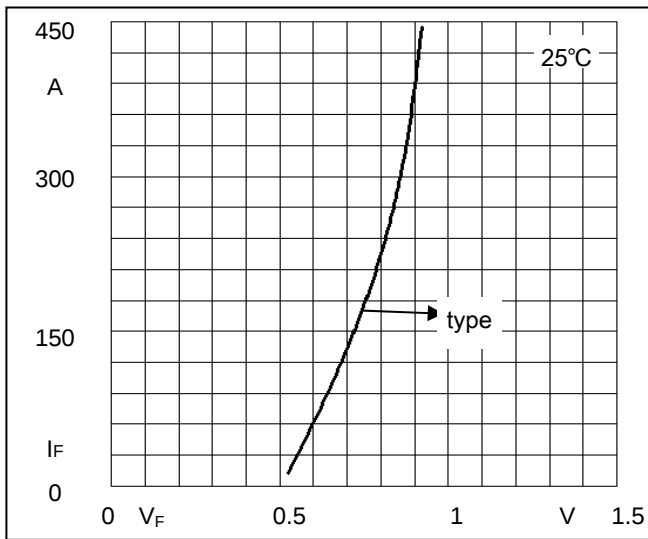


Fig1. Forward Voltage Drop vs Forward Current

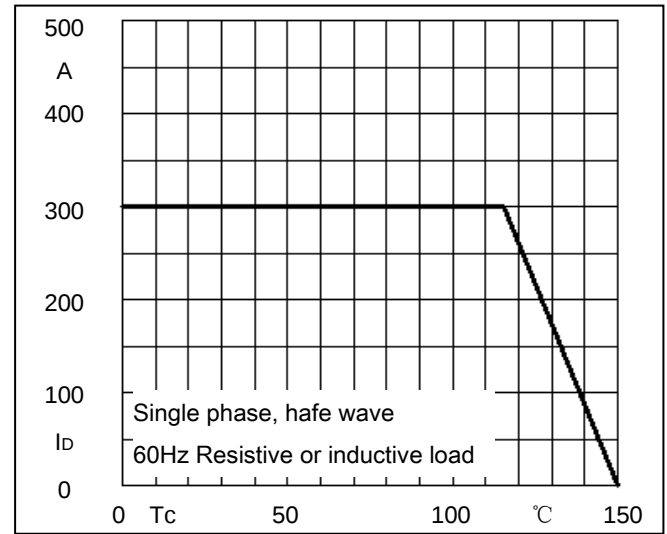


Fig2. Forward Current Derating Curve

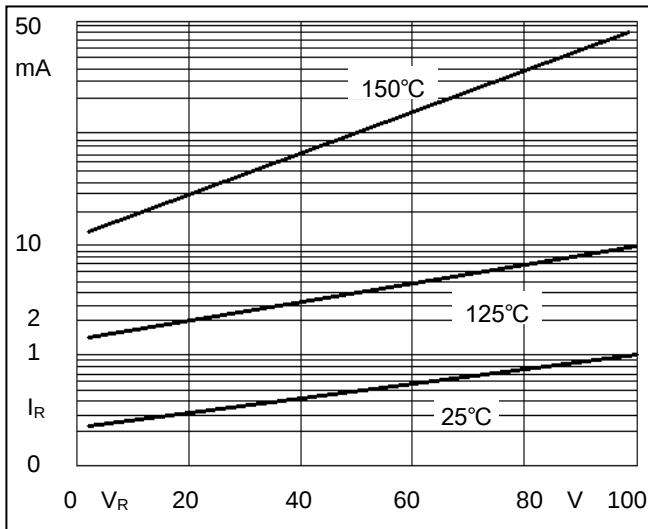
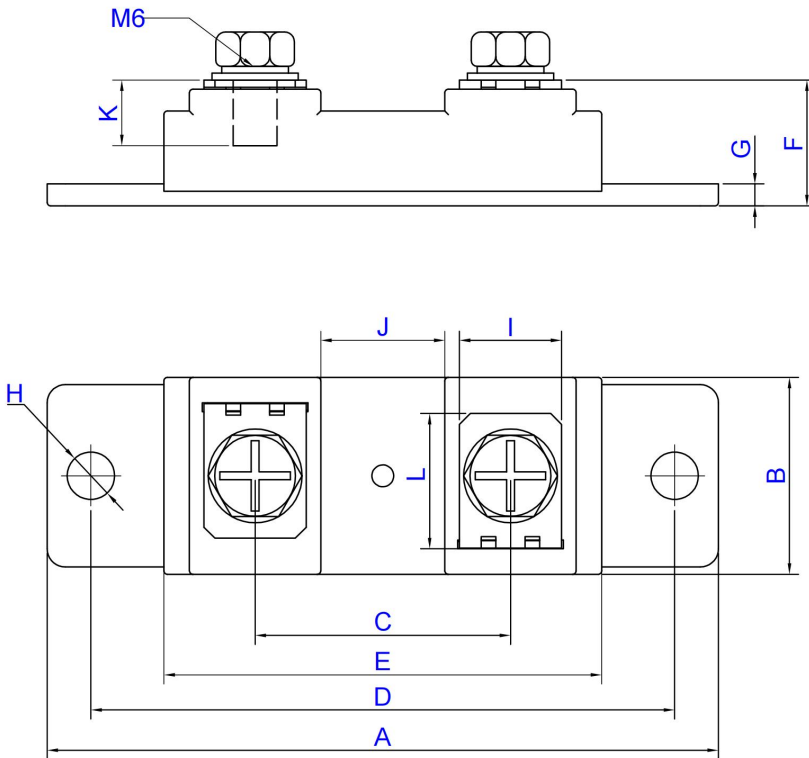


Fig3. Typical Reverse Current

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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