



Schottky Rectifier Modules

V_{RRM} 100V

I_{FAV} 400 A

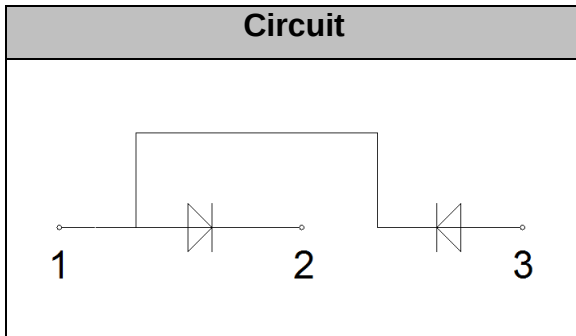
Applications

- Inversion Welder
- Uninterruptible Power Supply (UPS)
- Plating Power Supply
- Ultrasonic Cleaner and Welder
- Power Factor Correction (PFC) Circuit
- Converter & Chopper

Features

- Insulation Encapsulation
- High Frequency Operation
- Low Forward Voltage
- High Surge Current Capability
- Low Inductance Package

Circuit



Maximum Ratings

Symbol	Conditions	Values	Units
V _R		100	V
I _{F(AV)}	T _C =125°C, Per Leg	400	A
I _{FSM}	1/2 Cycle, 60Hz, Sine	5300	A
I ² t	T _J =45°C, t=8.3ms, 60Hz, Sine	140000	A ² s
Visol	AC, Ton=1min	3000	V
T _J		-40 to +150	°C
T _{STG}		-40 to +150	°C
Torque	Recommended (M6)	4±15%	N·m
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Weight		160	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 =100V	--	--	1	mA
	V _R =100V, T _J =125°C	--	--	10	mA
V _F	I _F =200A, T _J =25°C		0.77	0.83	V
	I _F =200A, T _J =125°C		0.72	0.8	V
	I _F =400A, T _J =25°C	--	0.94	1.05	V
	I _F =400A, T _J =125°C	--	0.81	0.89	V



Performance Curves

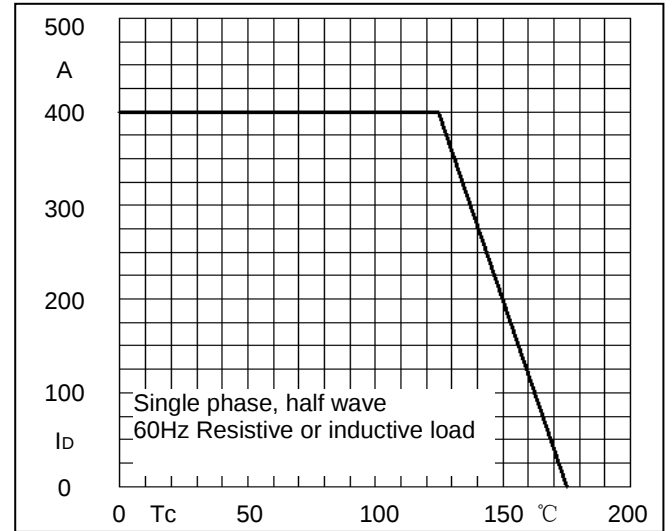
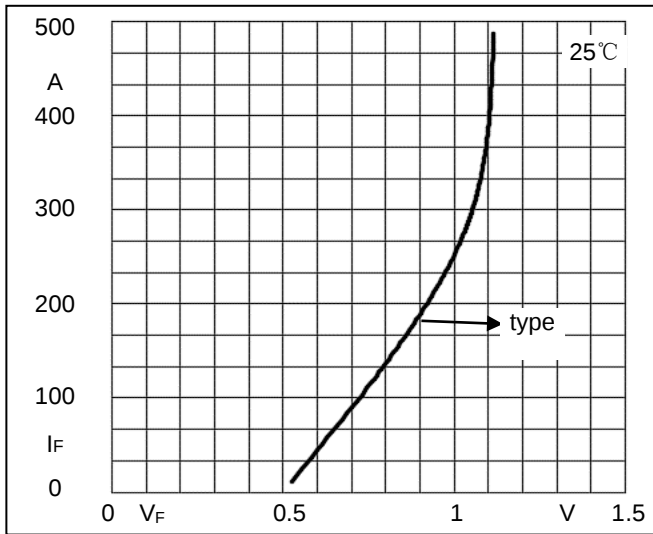


Fig1. Forward Voltage Drop vs Forward Current

Fig2. Forward Current Derating Curve

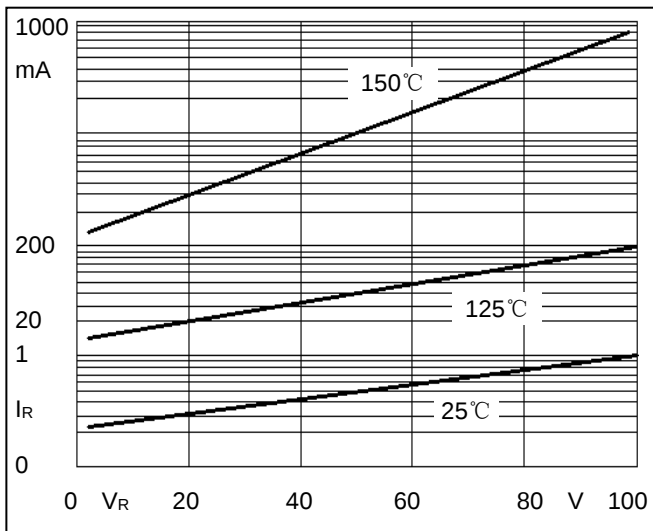
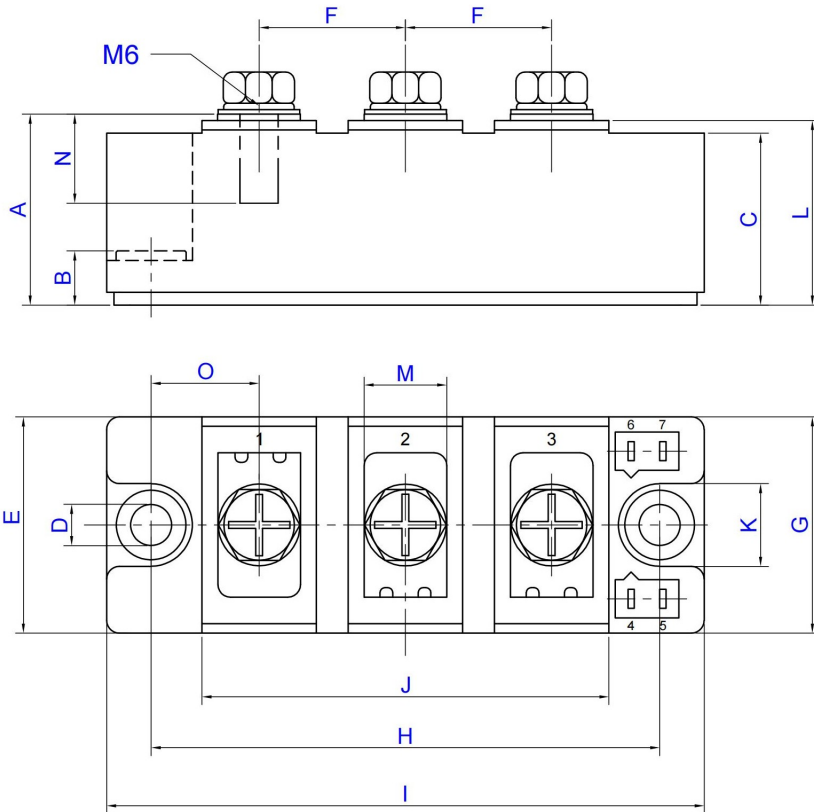


Fig3. Typical Reverse Current

Package Outline Information

CASE: F2



DIM	Min (mm)	Max (mm)	Note
A	29.5	30.5	
B	8.0	9.0	
C	26.5	27.5	
D	6.2	6.8	Ø
E	33.5	34.5	
F	22.5	23.5	
G	12.9	13.1	
H	79.5	80.5	
I	93.5	94.5	
J	63.5	64.5	
K	12.5	13.5	
L	28.5	29.5	
M	12.5	13.5	
N	13.5	14.5	
O	16.5	17.5	

Packing Standard

Item	Length: A (mm)	Width: B (mm)	Height: C (mm)	Quantity (PCS)
Inner Box	276	258	40	8
Outer Carton	545	295	240	80



Disclaimer

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