MB400K01F4

RoHS COMPLIANT



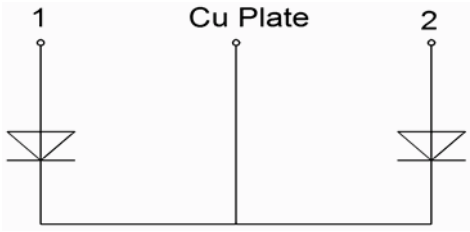
Schottky Rectifier Modules

VRRM 100V
IFAV 400 A

Applications

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

Circuit



Features

- 175 T_J Opration
- Center Tap Module
- High Frequency Opration
- Low Forward Voltage
- Dual Diode Contruction; 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	200	A
	T_C=125°C, Per Moudle	400	A
I_{FSM}	1/2 Cycle , 60Hz, Sine	3000	A
I^2t	T_J=45°C, t=8.3ms, 60Hz, Sine	45000	A^2s
T_J		-40 to +175	°C
T_{STG}		-40 to +175	°C
Torque	To Sink Recommended M6	3 4.7	N·m
Torque	To Terminal Recommended M6	3 4.7	N·m
Weight		65	g

Thermal Characteristics

Symbol	Conditions	Values	Units
$R_{th(j-c)}$	Per diode	0.3	/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=200A, , T_J=25°C	--	0.78	0.85	V
	I_F=200A, , T_J=125°C	--	0.66	0.68	

Performance Curves

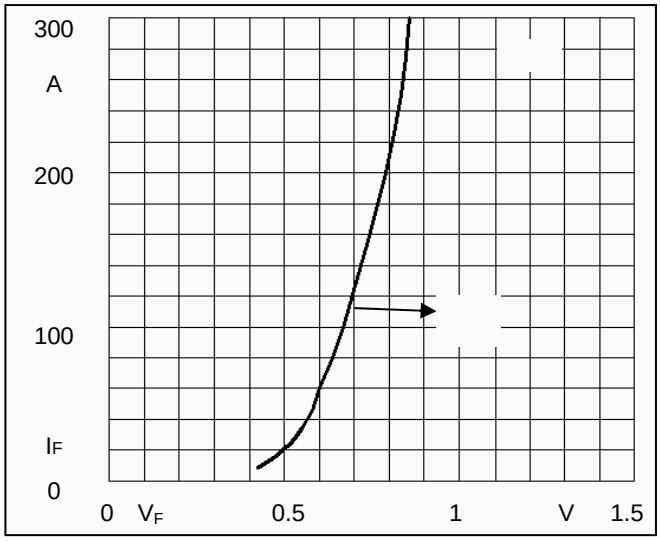


Fig1. Forward Voltage Drop vs Forward Current

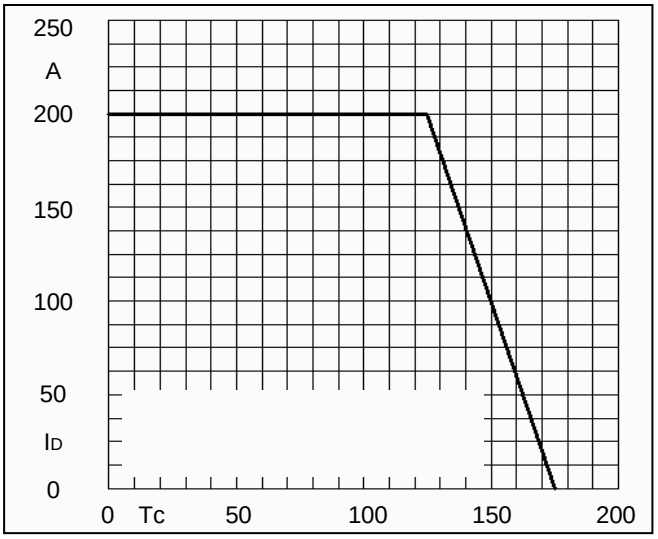


Fig2. Forward Current Derating Curve

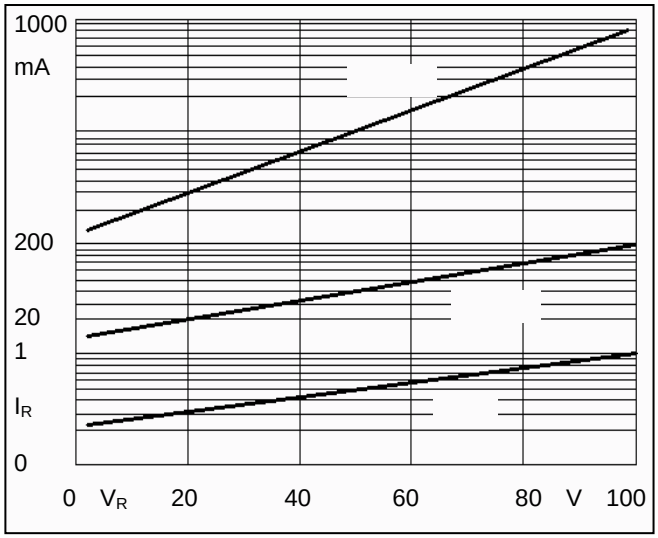
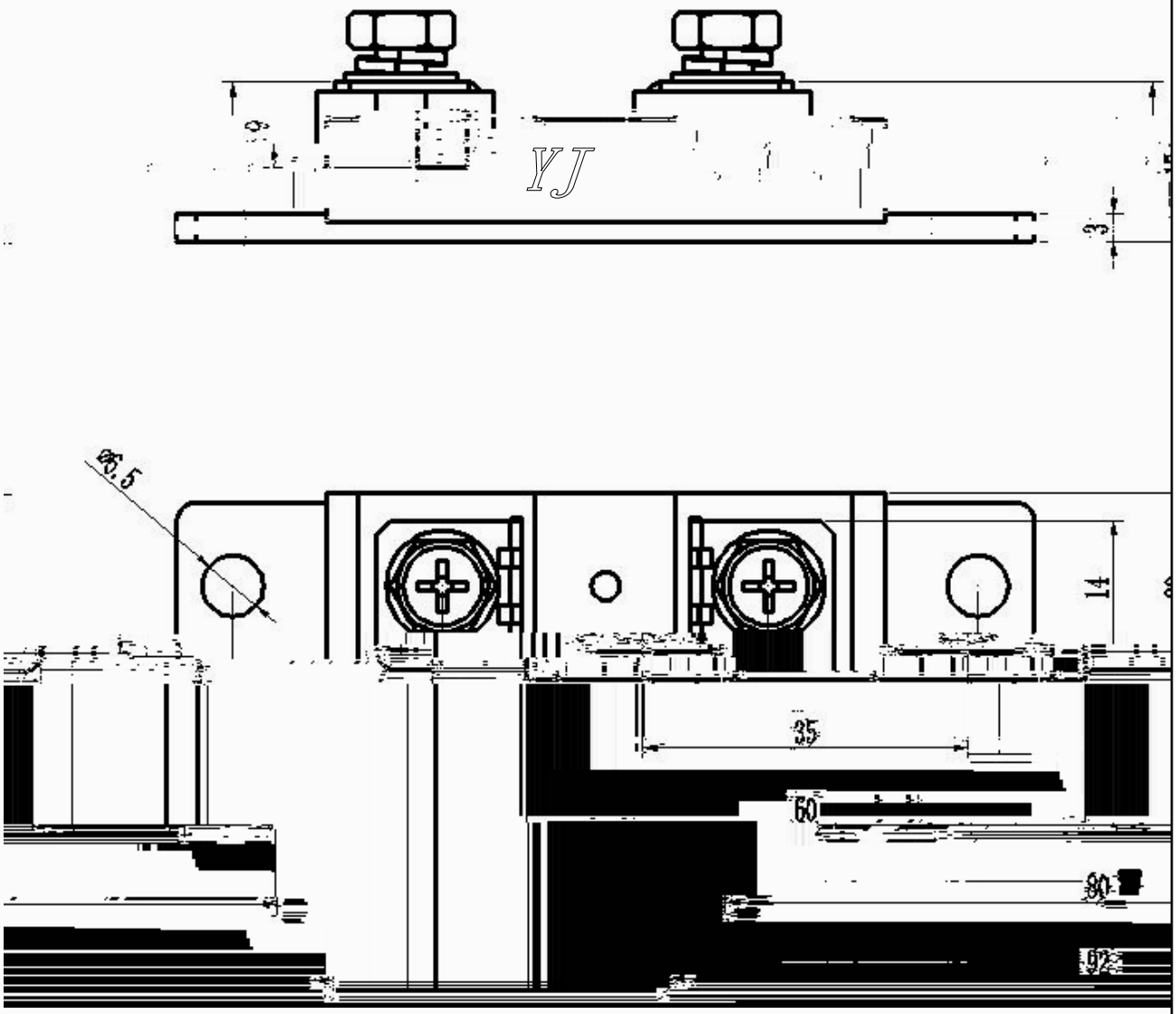


Fig3. Typical Reverse Current

Package Outline Information

CASE: F4



Dimensions in mm